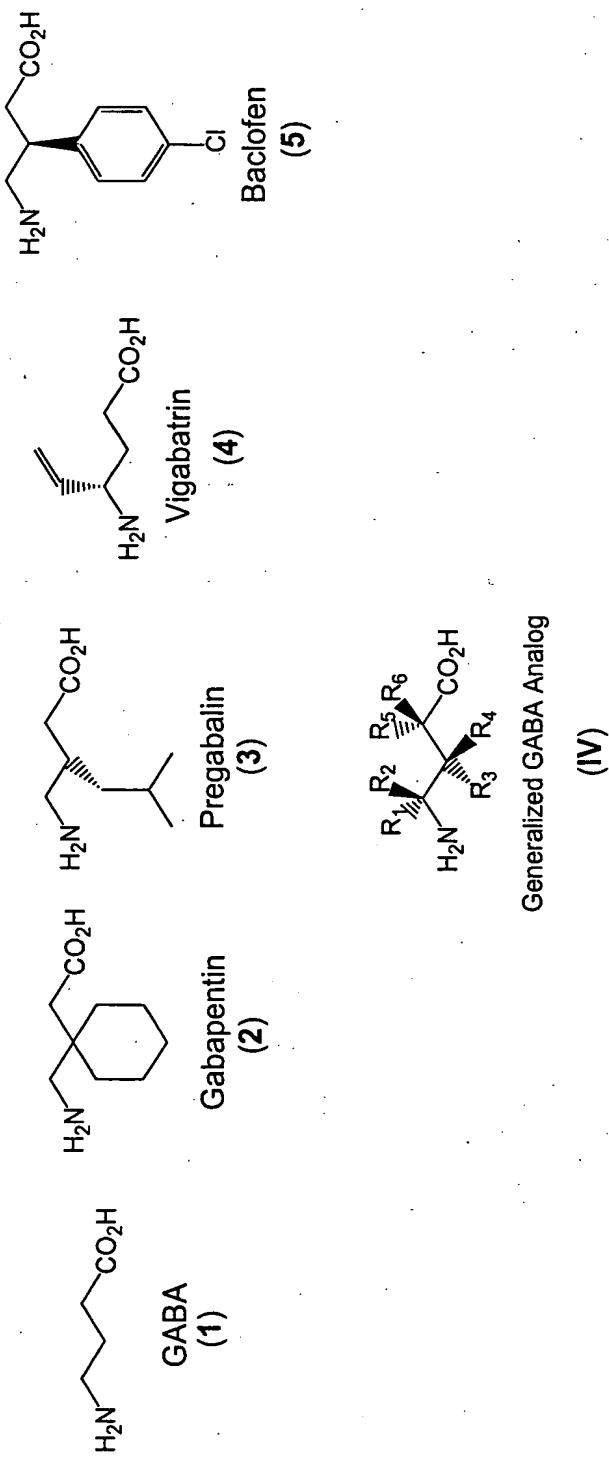


Figure 1



**Figure 2**

**The Enterohepatic Circulation with Key Transporter Proteins Mediating Bile Acid Circulation**

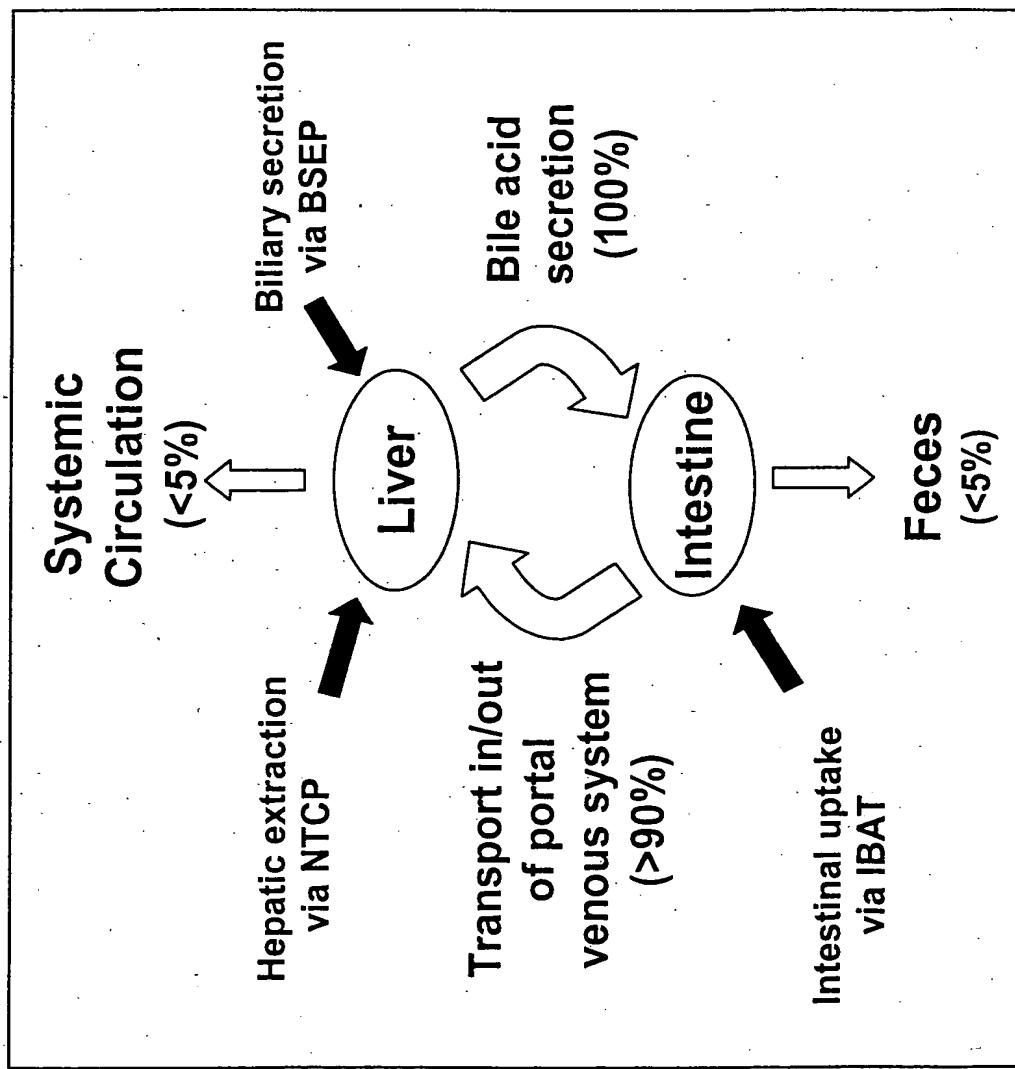
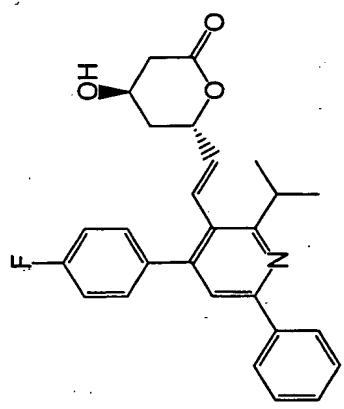


Figure 3

Bile Acid Conjugates of HMG-CoA Reductase Inhibitor



HR 780

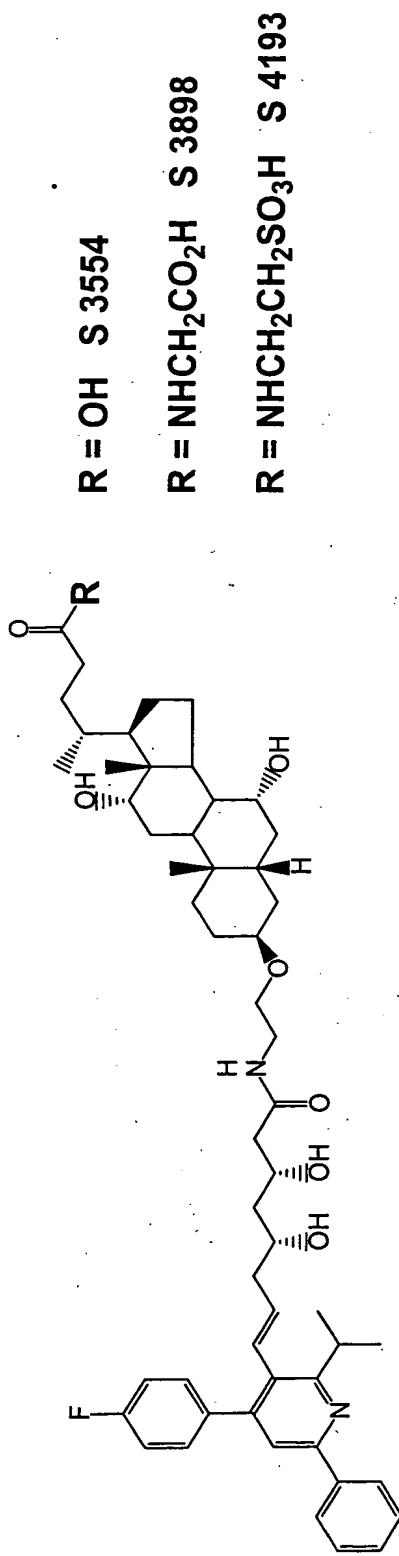


Figure 4

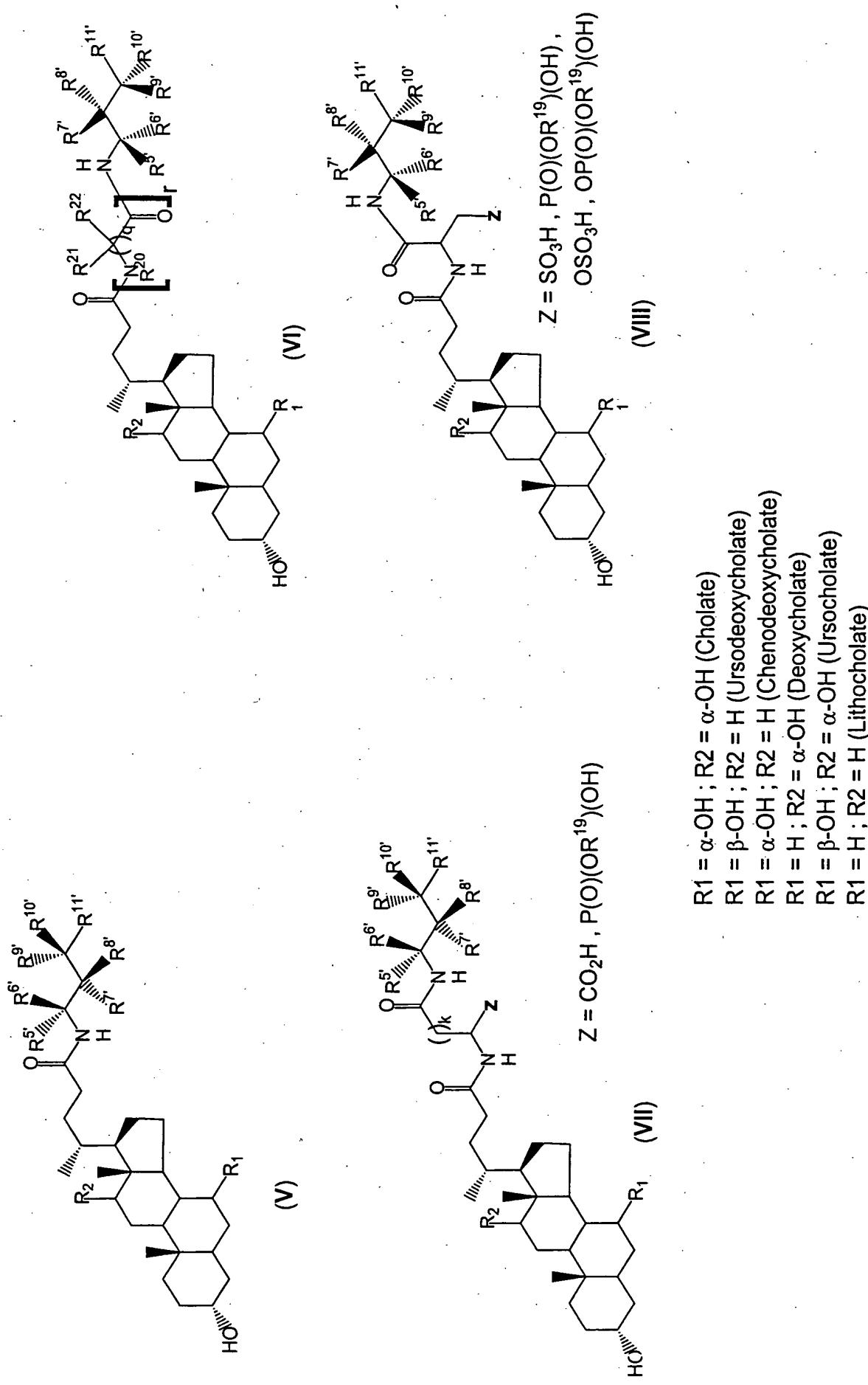
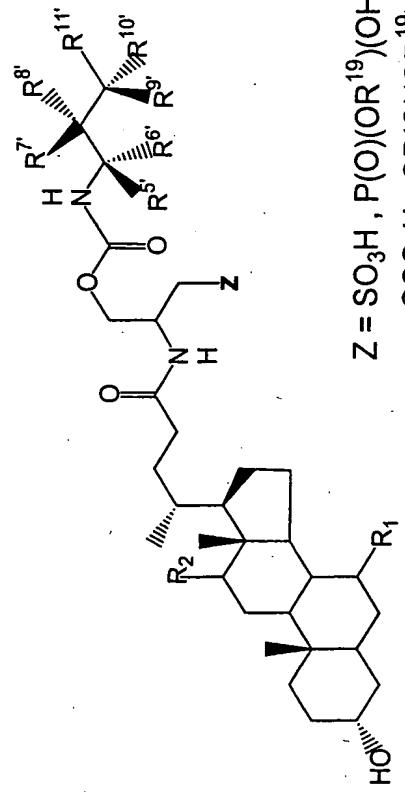
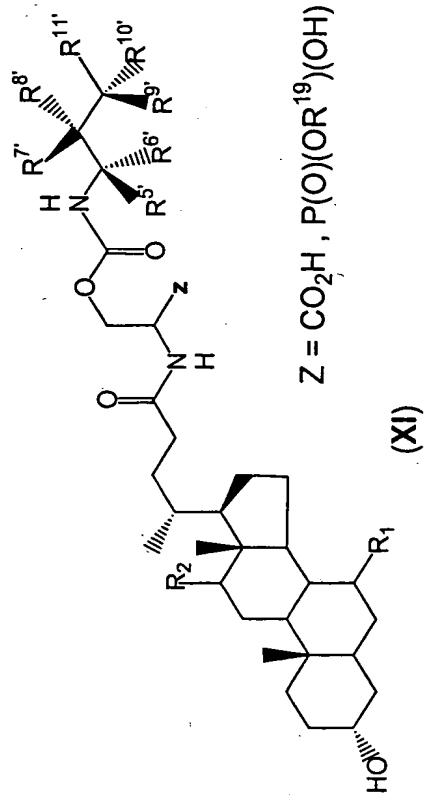
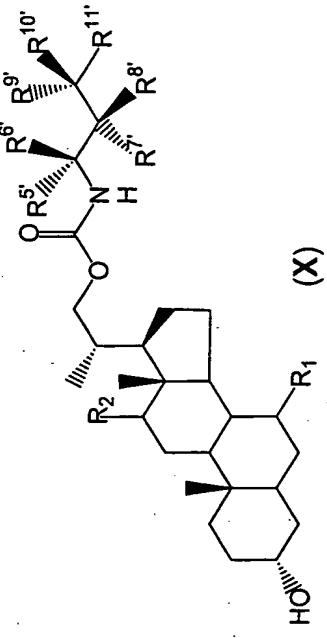
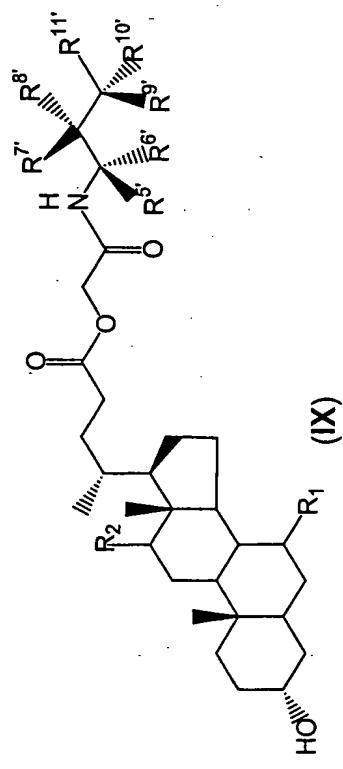
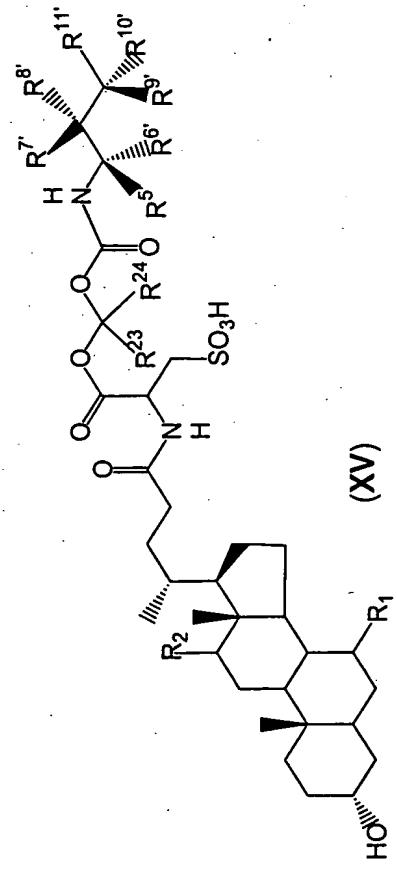
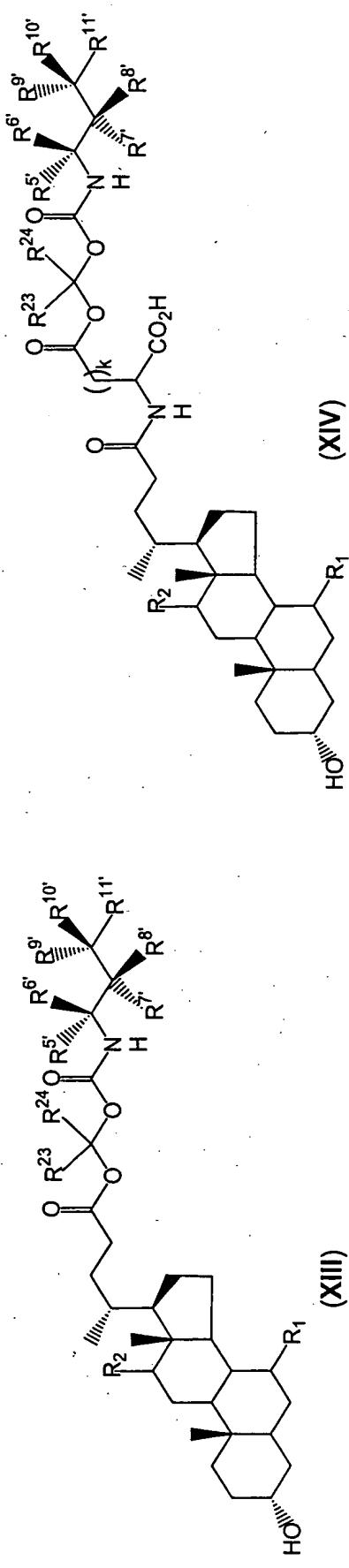


Figure 5



$R1 = \alpha-OH; R2 = \alpha-OH$  (Cholate)  
 $R1 = \beta-OH; R2 = H$  (Ursodeoxycholate)  
 $R1 = \alpha-OH; R2 = H$  (Chenodeoxycholate)  
 $R1 = H; R2 = \alpha-OH$  (Deoxycholate)  
 $R1 = \beta-OH; R2 = \alpha-OH$  (Ursocholate)  
 $R1 = H; R2 = H$  (Lithocholate)

**Figure 6**



$\text{R}^1 = \alpha\text{-OH} ; \text{R}^2 = \alpha\text{-OH} (\text{Cholate})$   
 $\text{R}^1 = \beta\text{-OH} ; \text{R}^2 = \text{H} (\text{Ursodeoxycholate})$   
 $\text{R}^1 = \alpha\text{-OH} ; \text{R}^2 = \text{H} (\text{Chenodeoxycholate})$   
 $\text{R}^1 = \text{H} ; \text{R}^2 = \alpha\text{-OH} (\text{Deoxycholate})$   
 $\text{R}^1 = \beta\text{-OH} ; \text{R}^2 = \alpha\text{-OH} (\text{Ursocholate})$   
 $\text{R}^1 = \text{H} ; \text{R}^2 = \text{H} (\text{Lithocholate})$

Figure 7

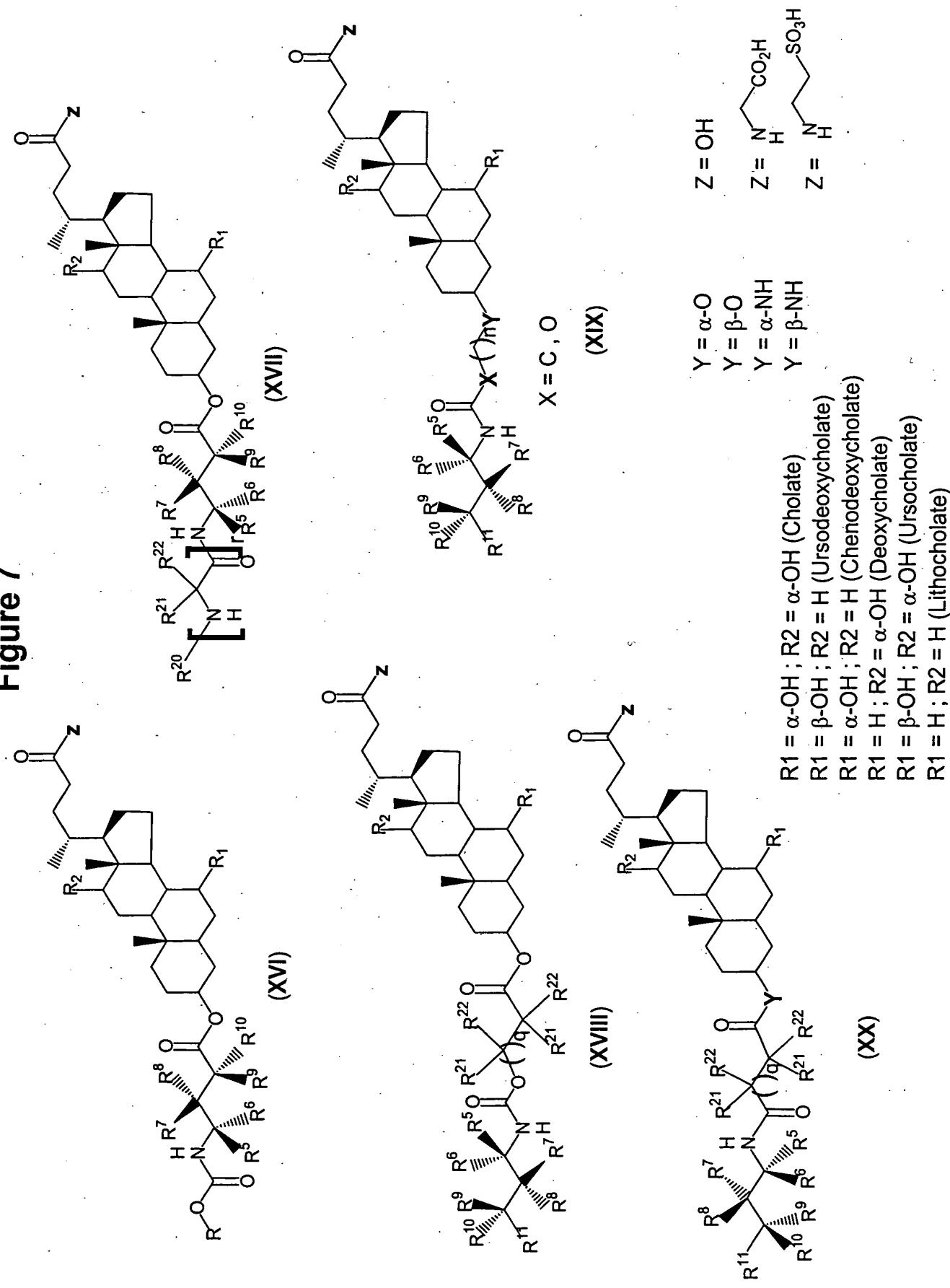
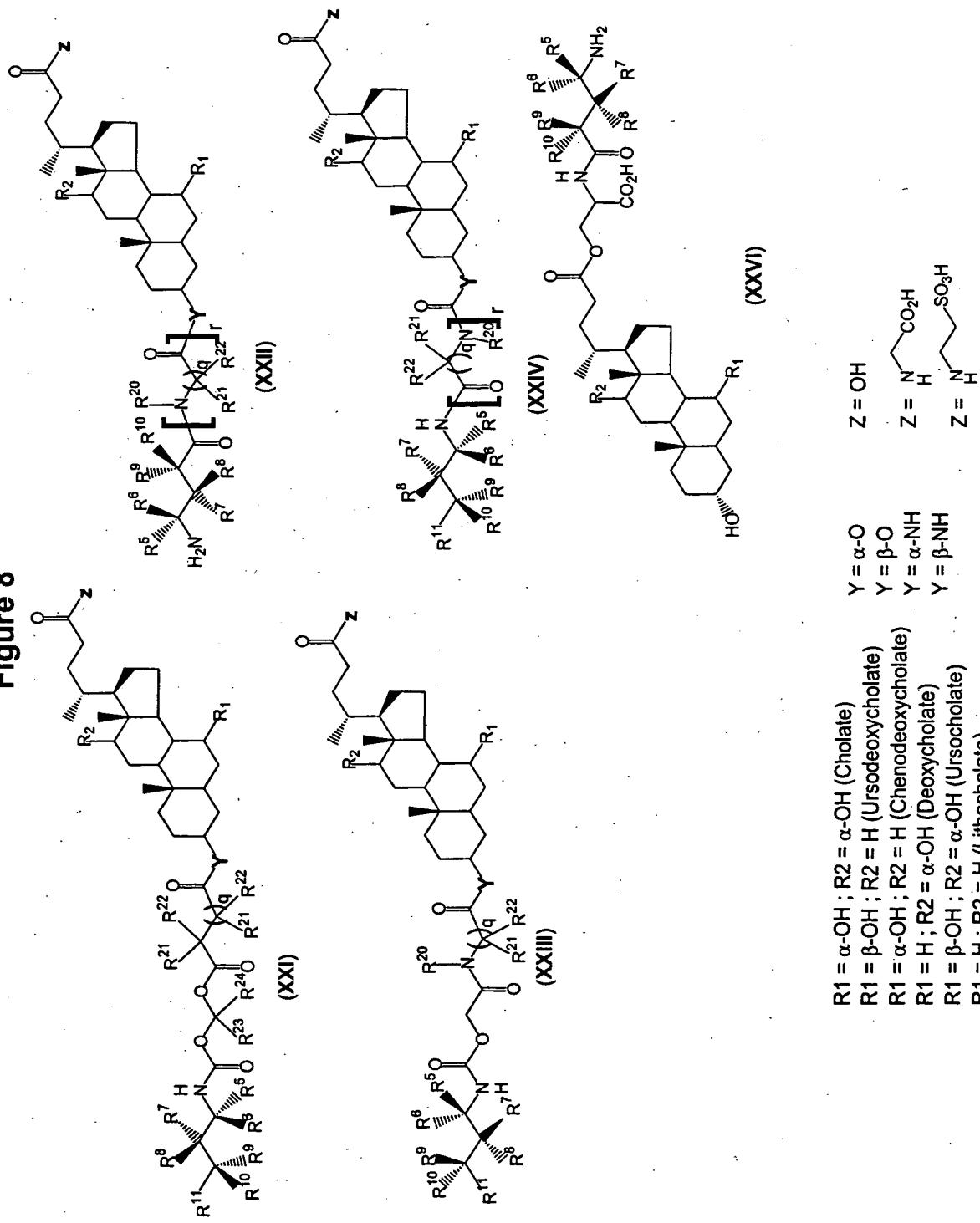
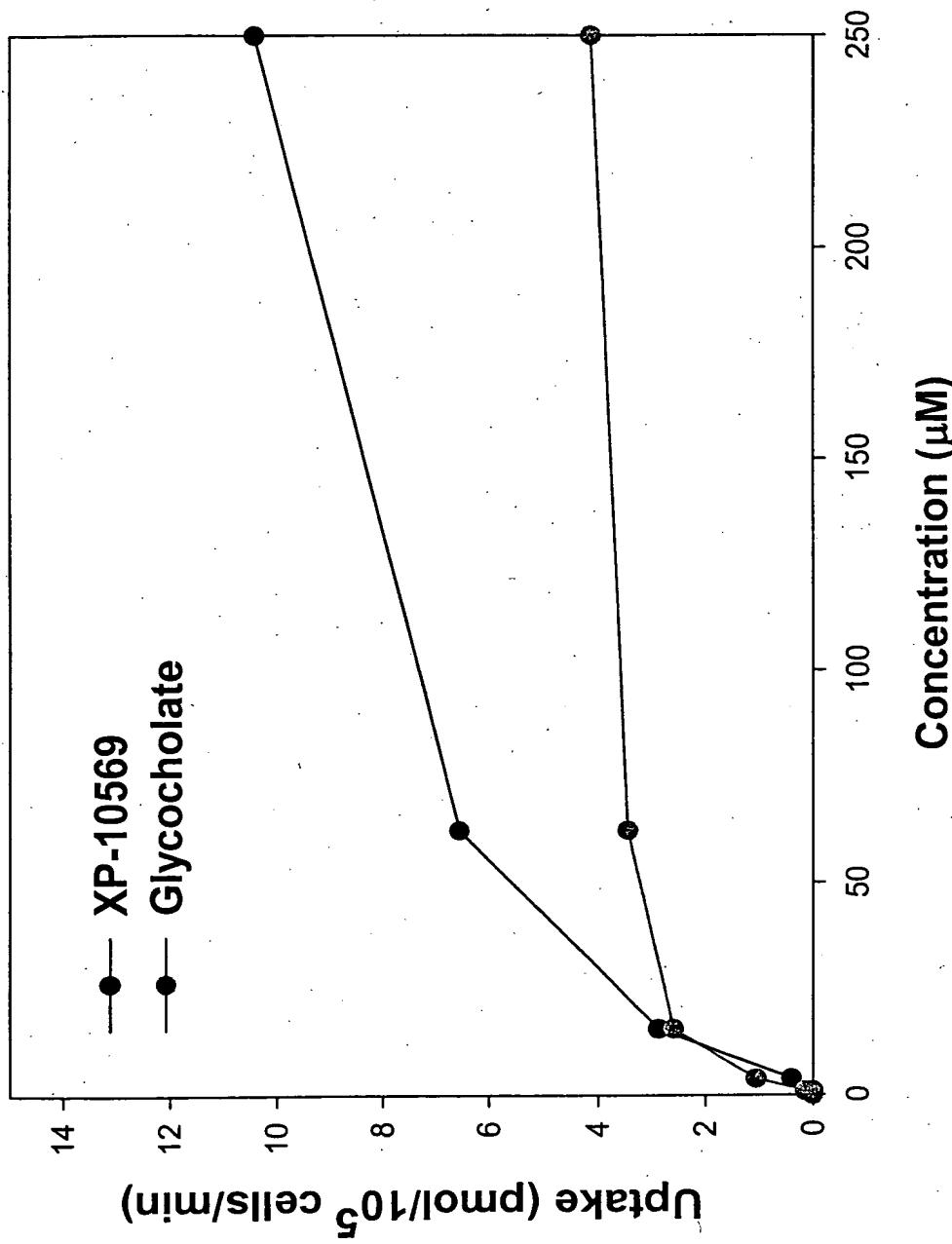


Figure 8



**Figure 9: Uptake of (8) (XP10569) or Glycochoolate by IBAT-Transfected CHO Cells**



**Figure 10: Uptake of (8) (XP10569) or Glycocholate by LBAT-Transfected CHO Cells**

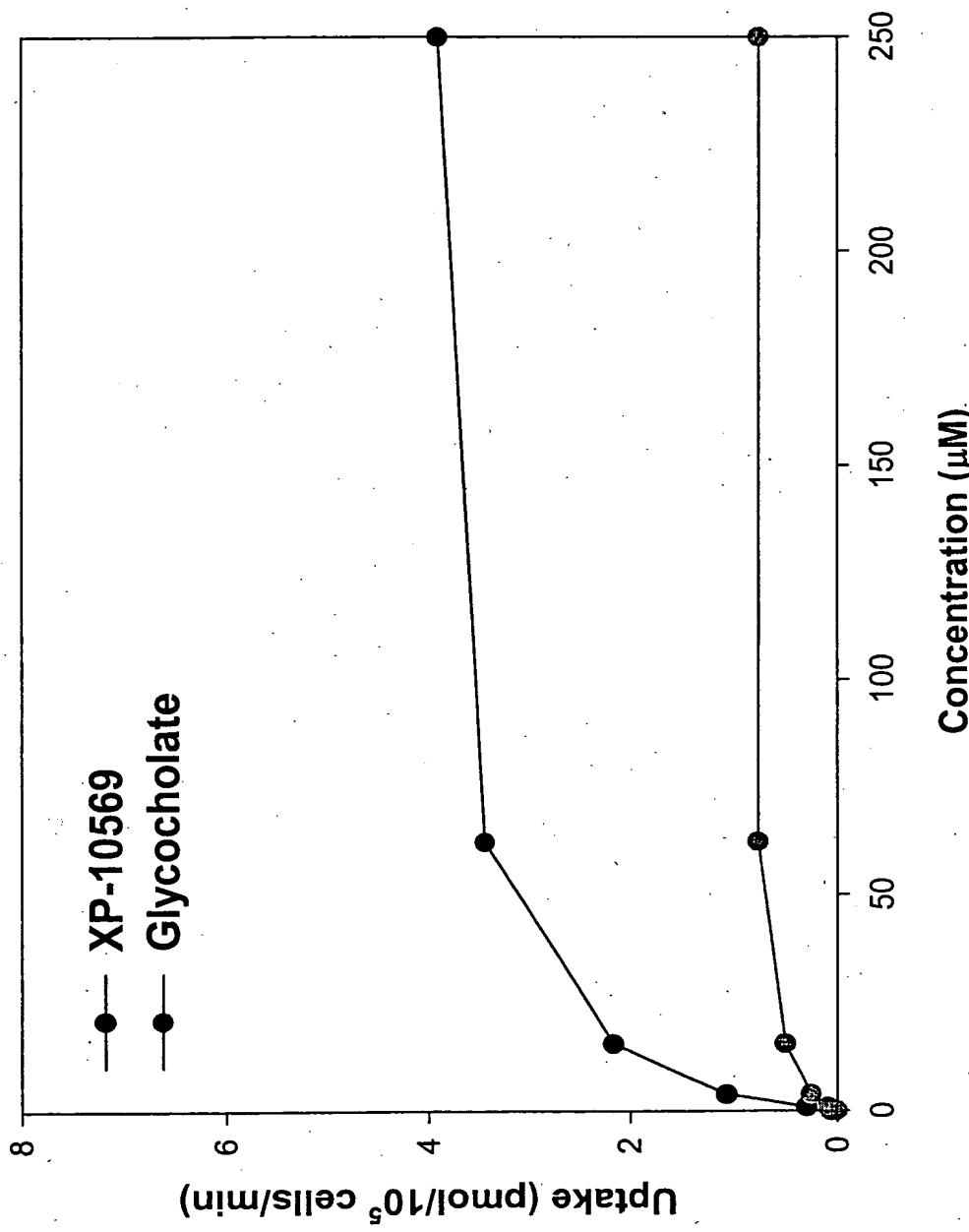


Figure 11

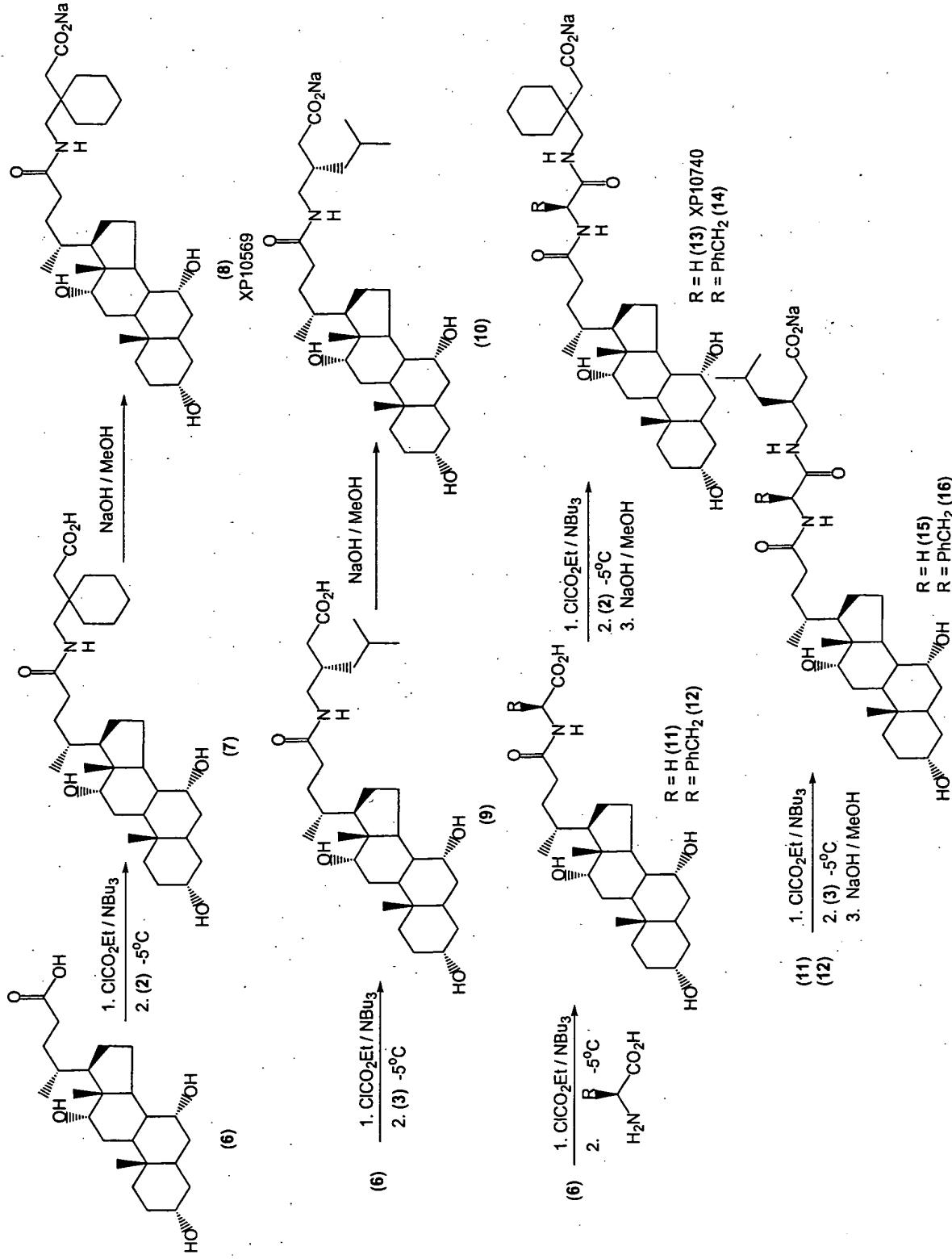


Figure 12

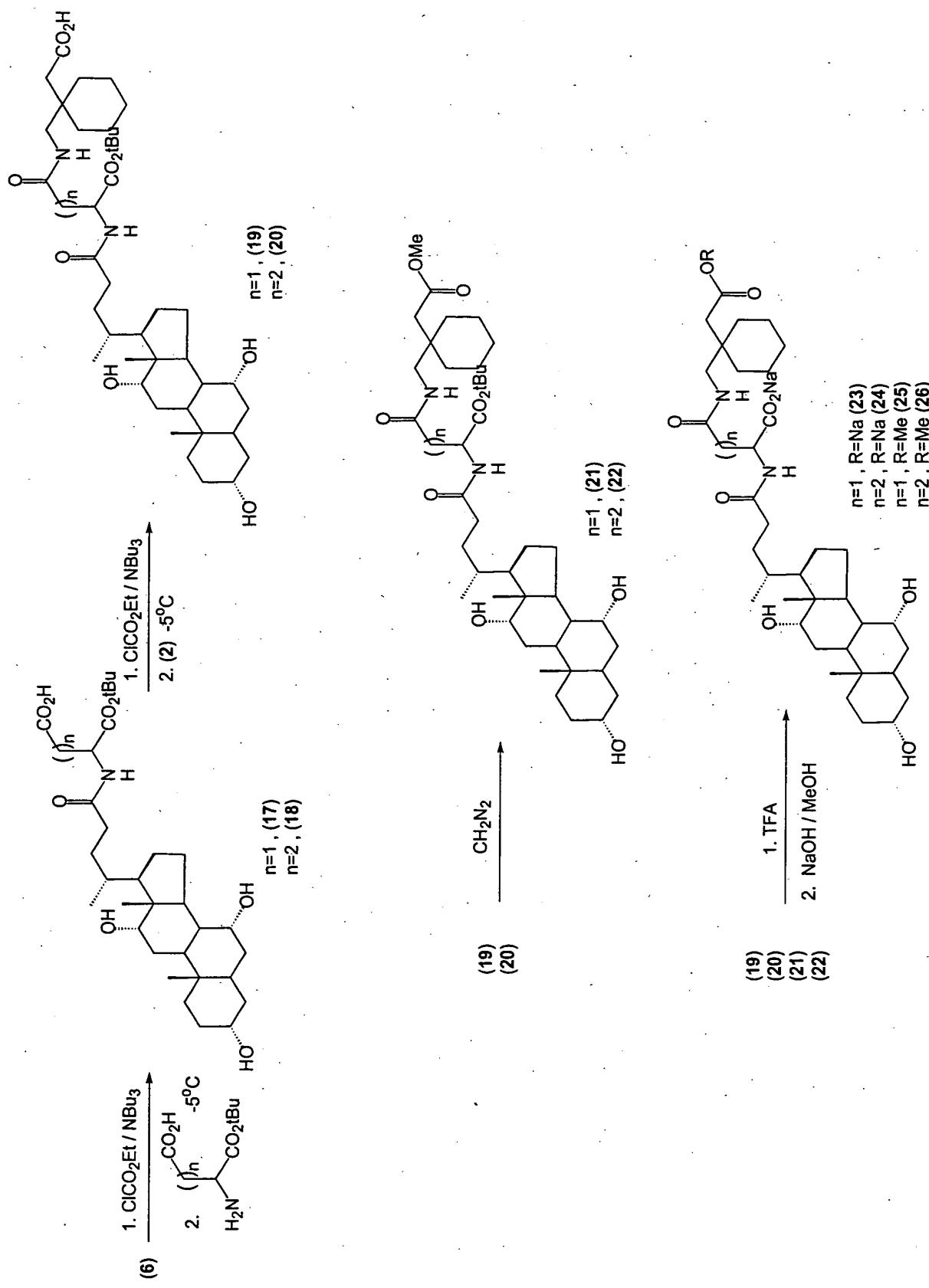


Figure 13

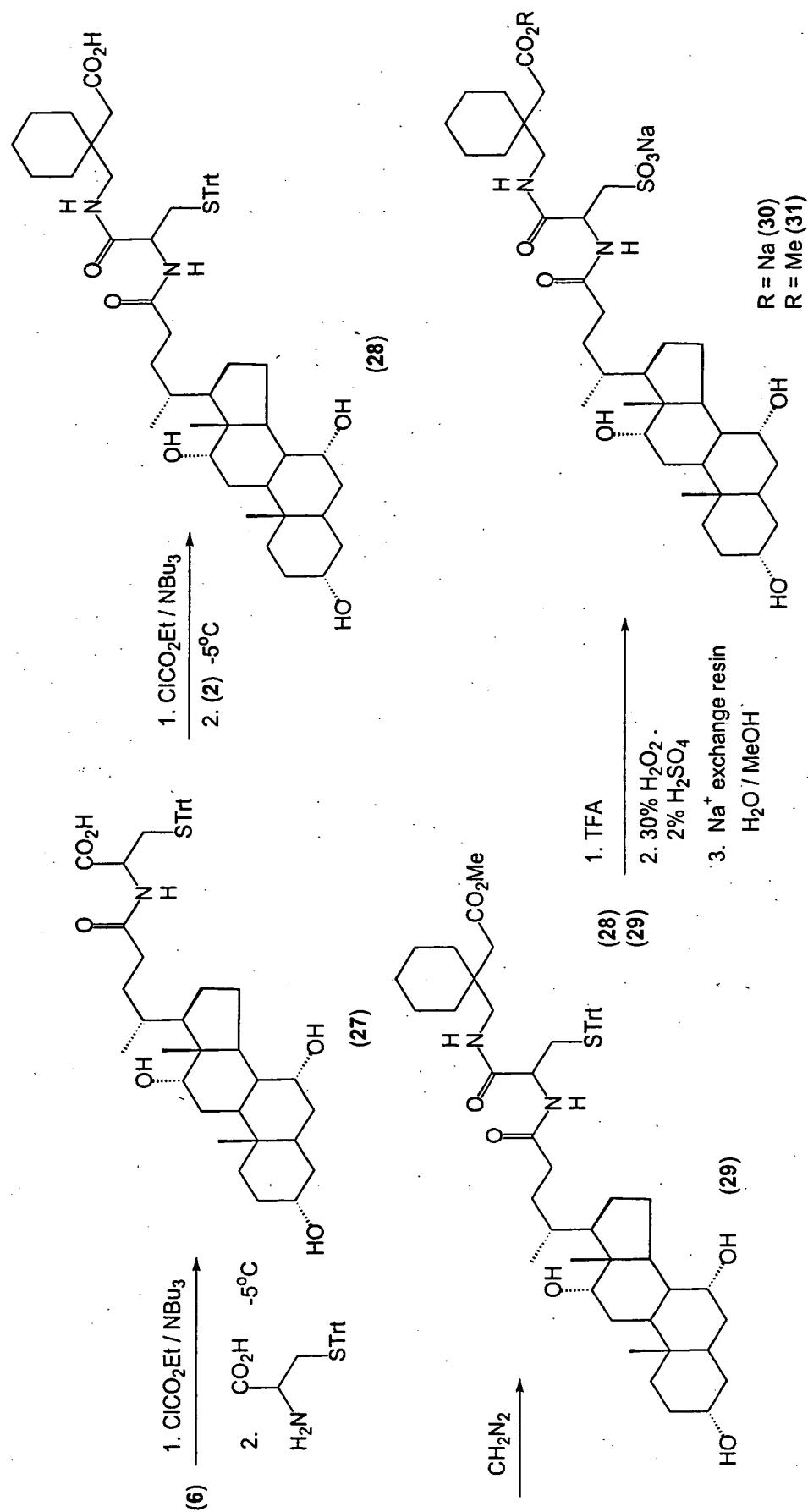


Figure 14

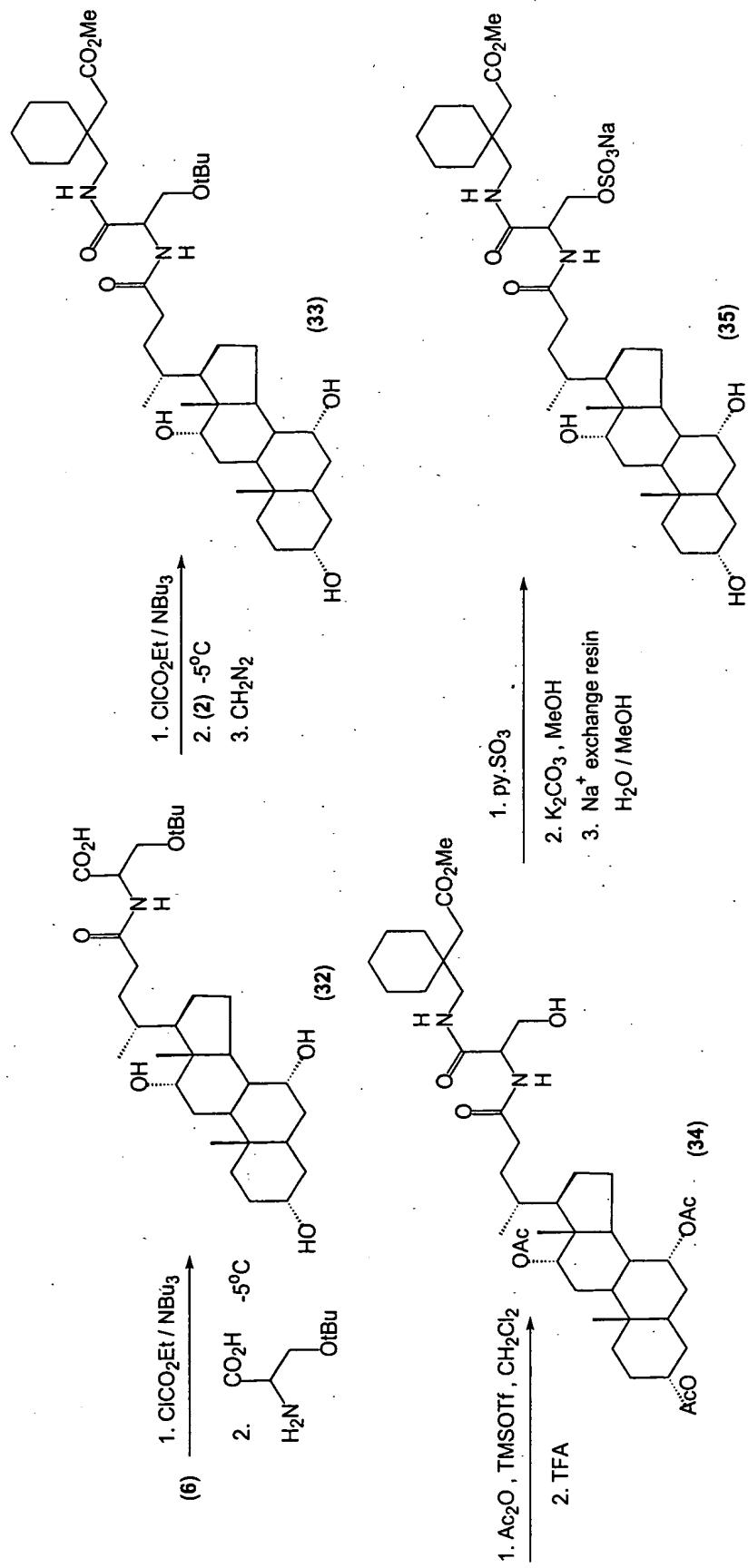


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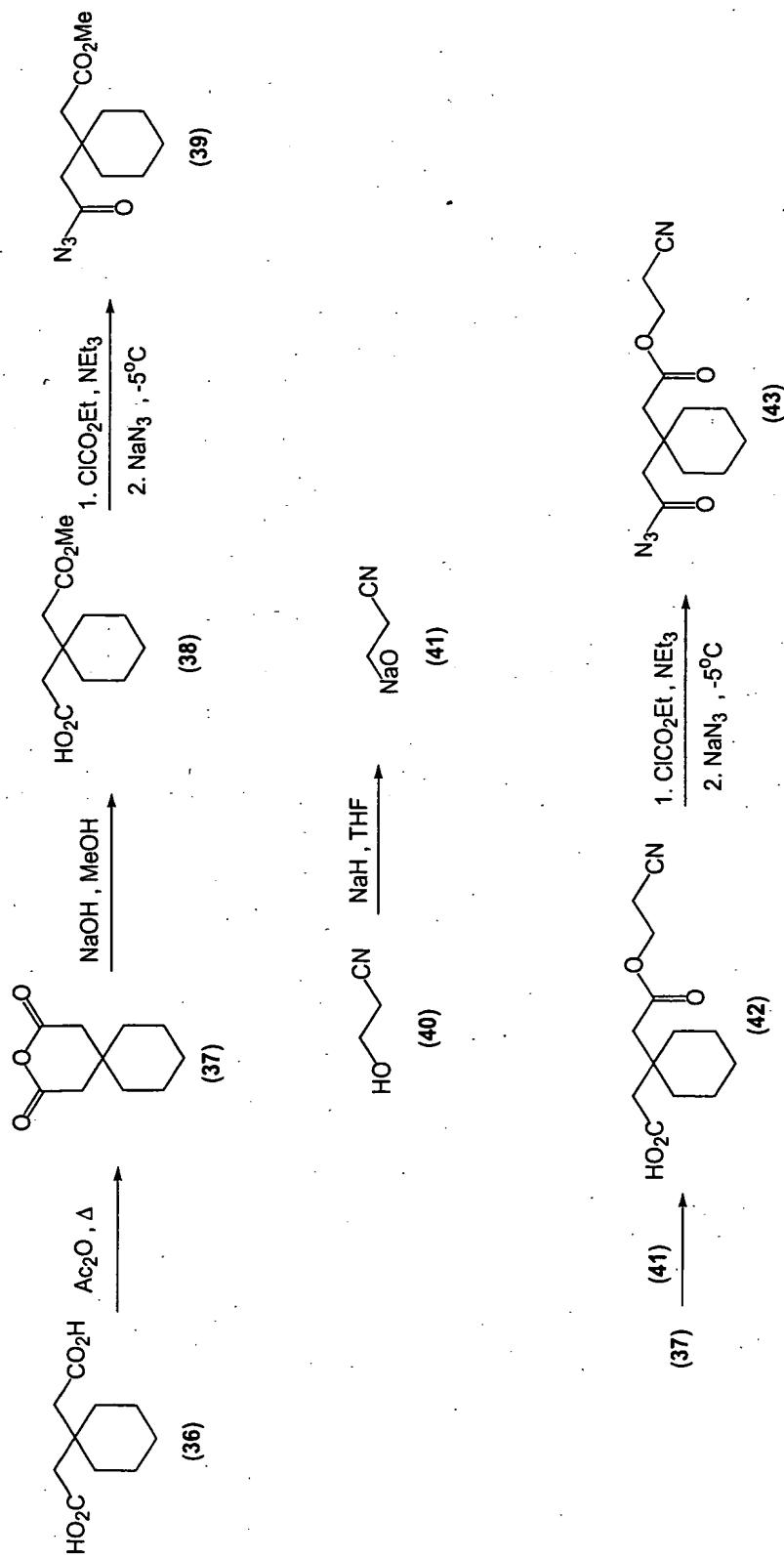


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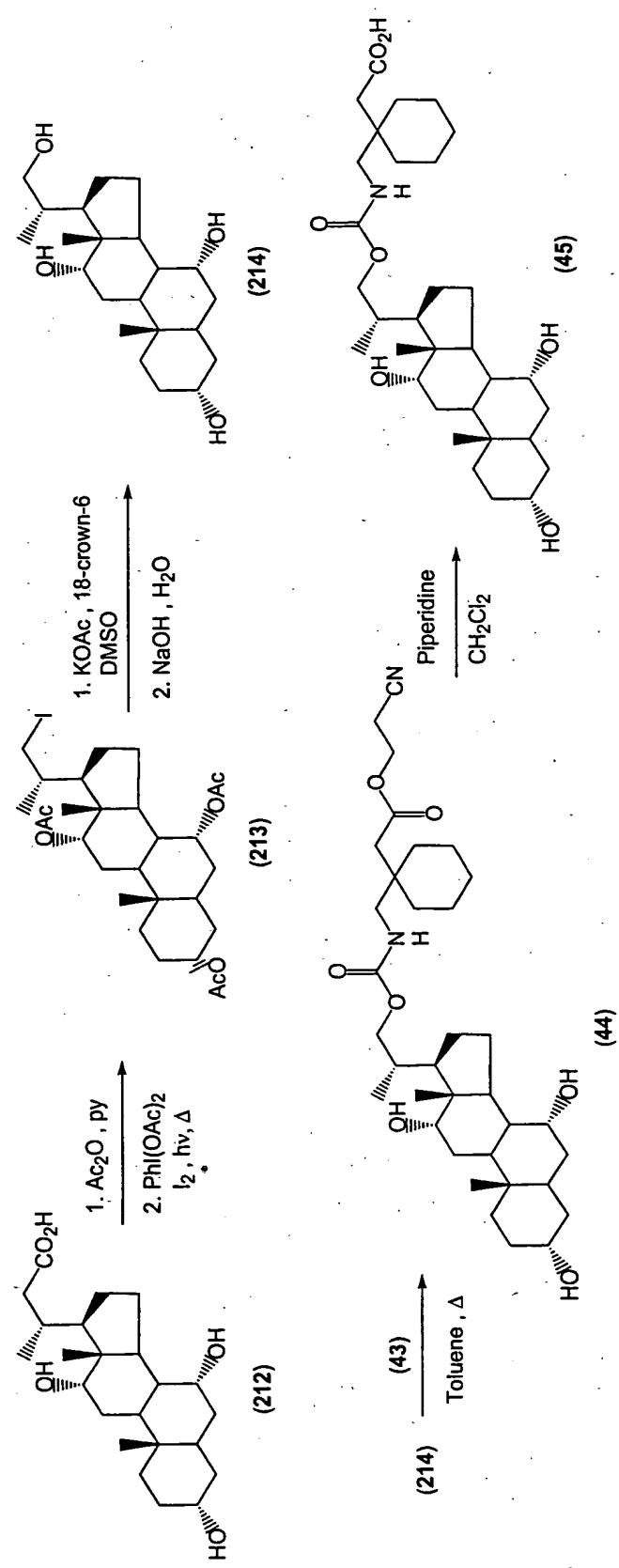


Figure 17

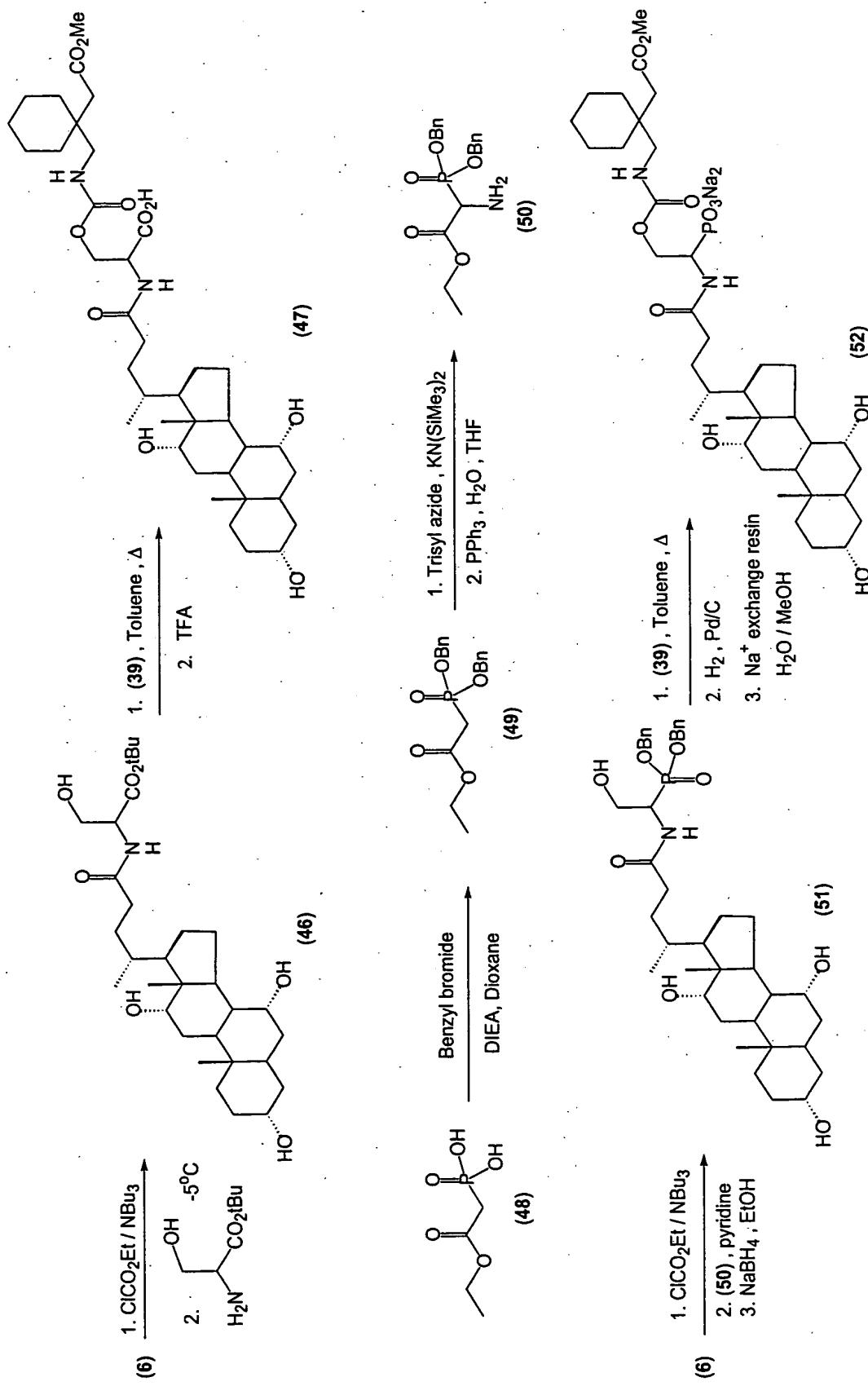


Figure 18

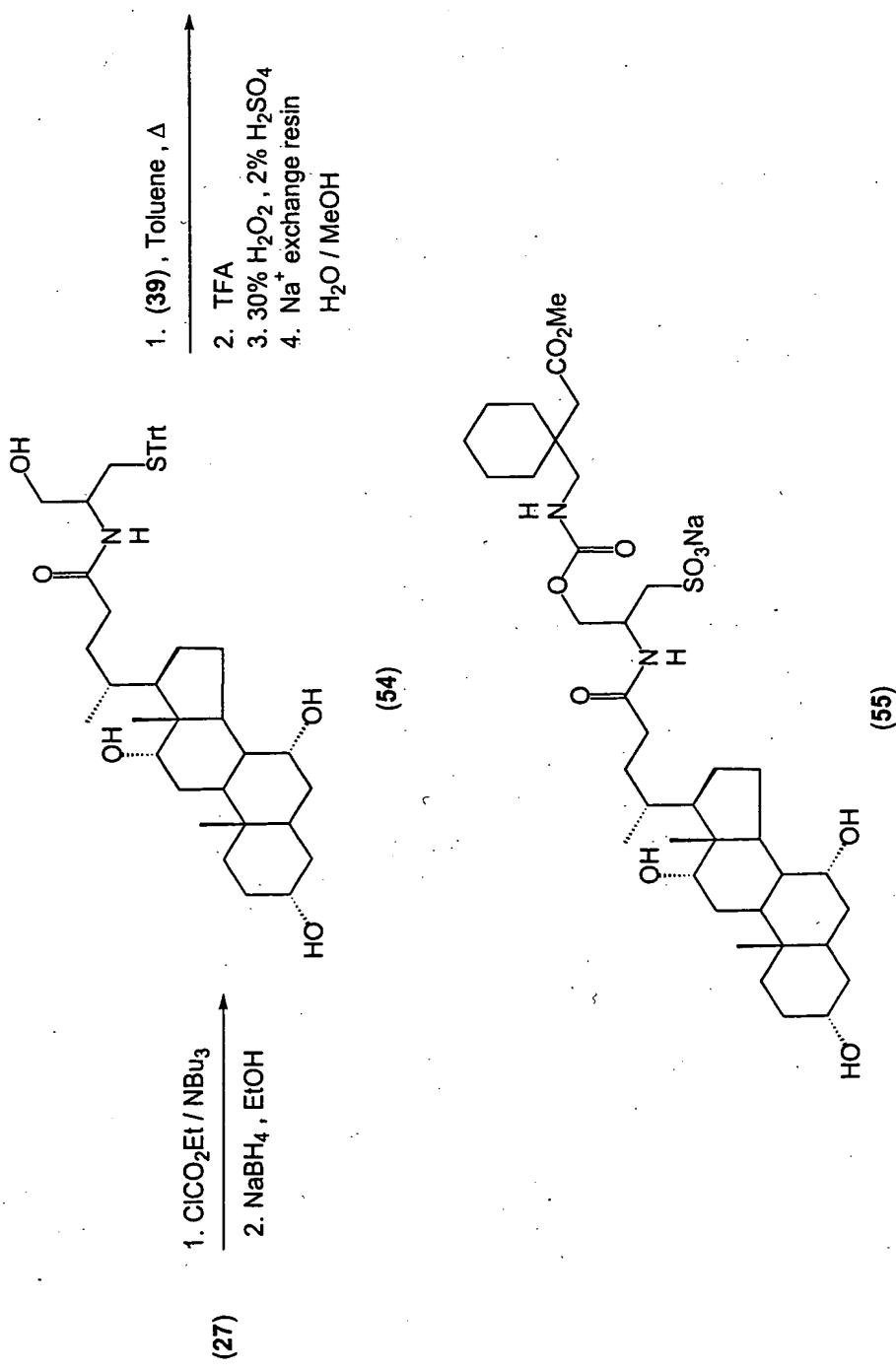


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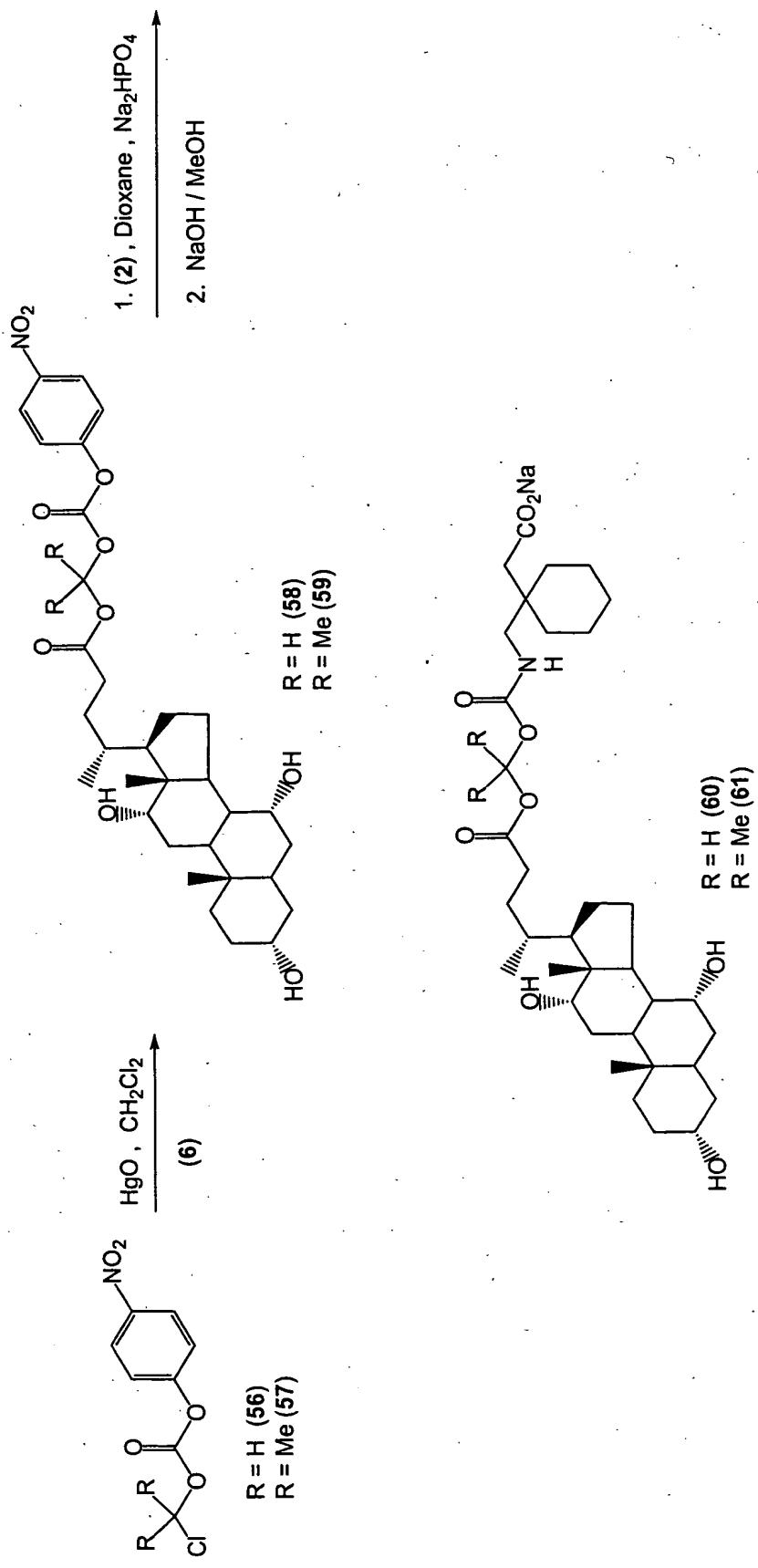


Figure 20

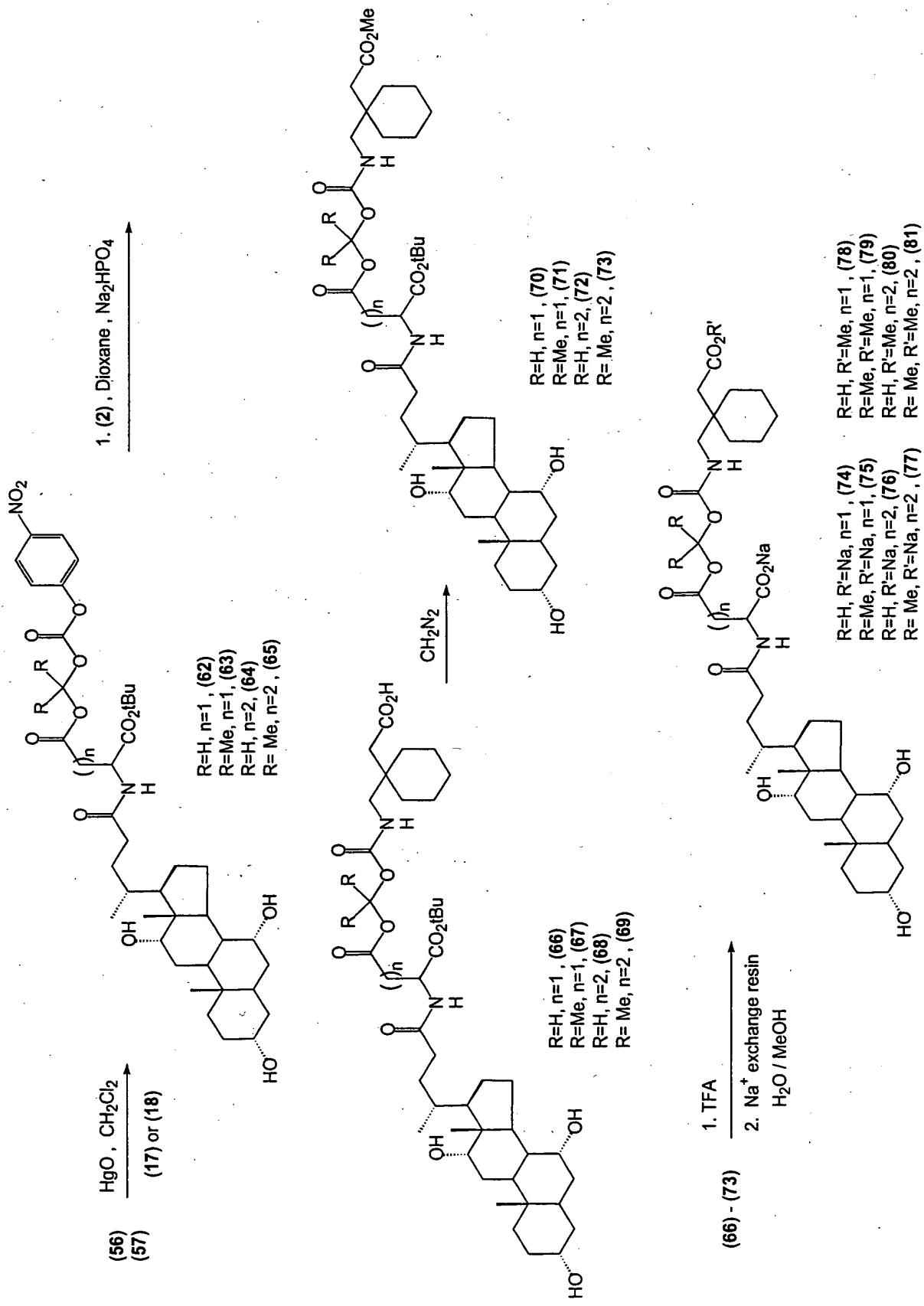


Figure 21

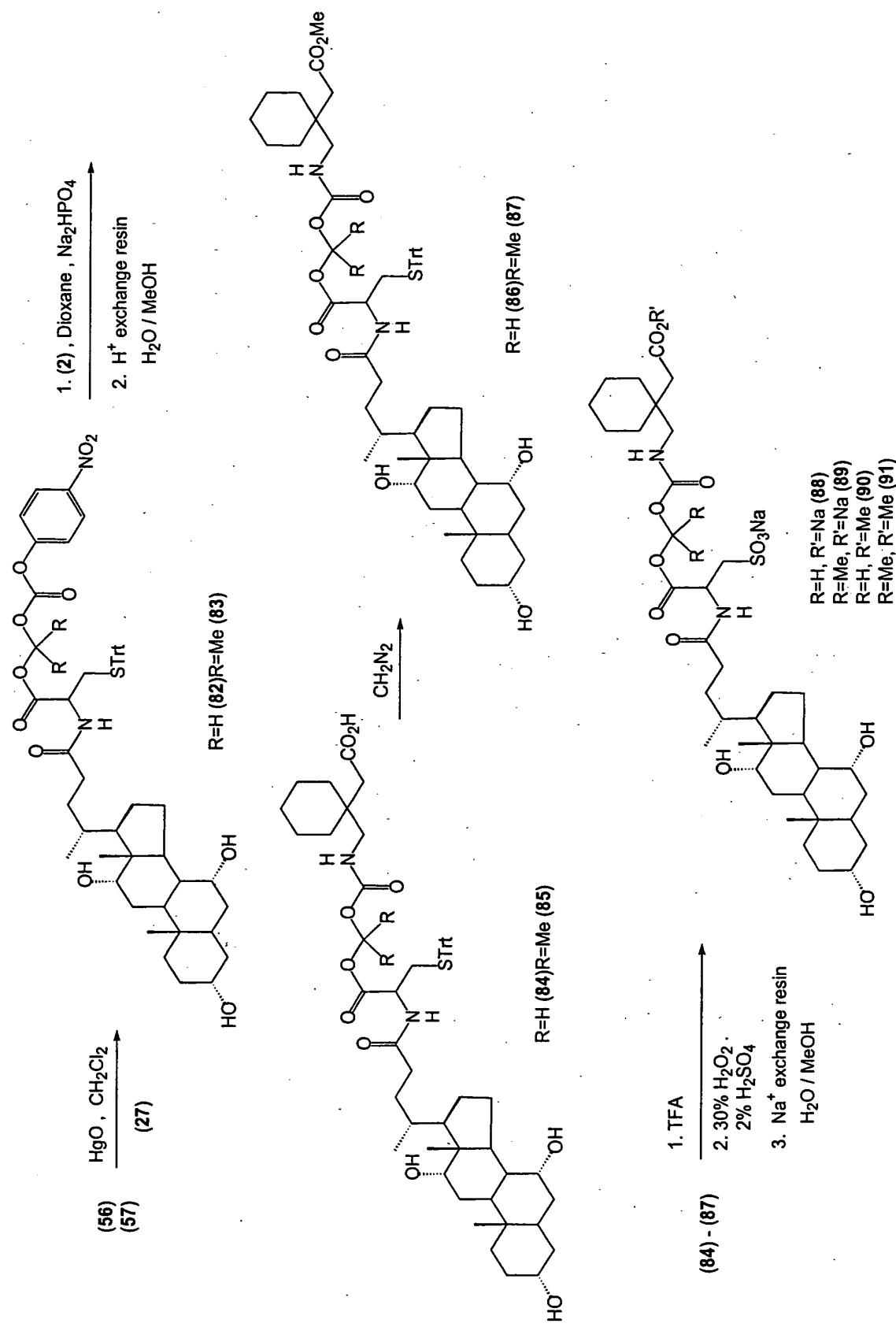
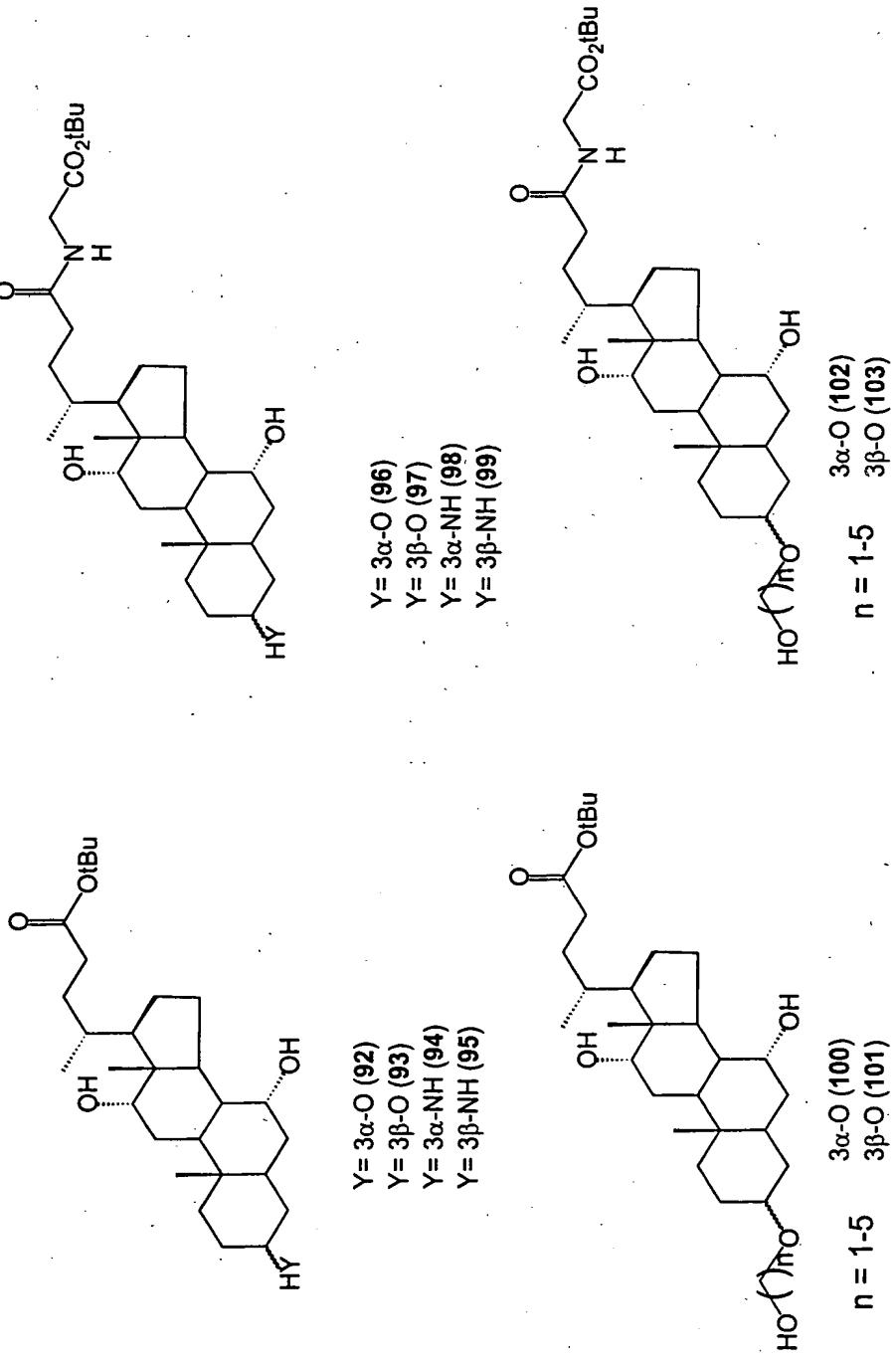
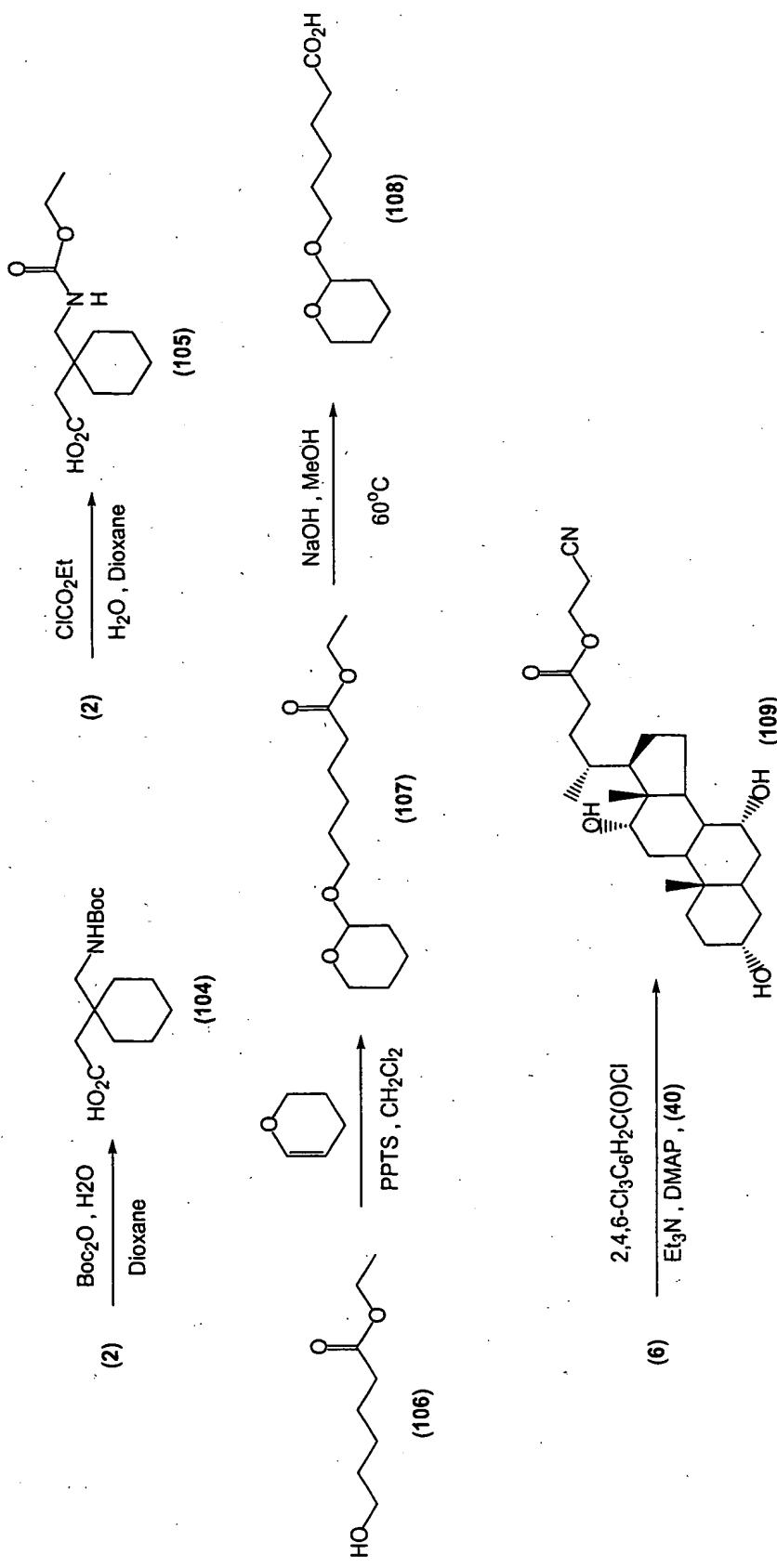


Figure 22



Compounds (92) - (103) prepared following methods described in co-pending application "Bile Acid-Derived Compounds for Enhancing Oral Absorption and Systemic Bioavailability of Drugs" assigned to XenoPort, Inc.

Figure 23



**Figure 24**

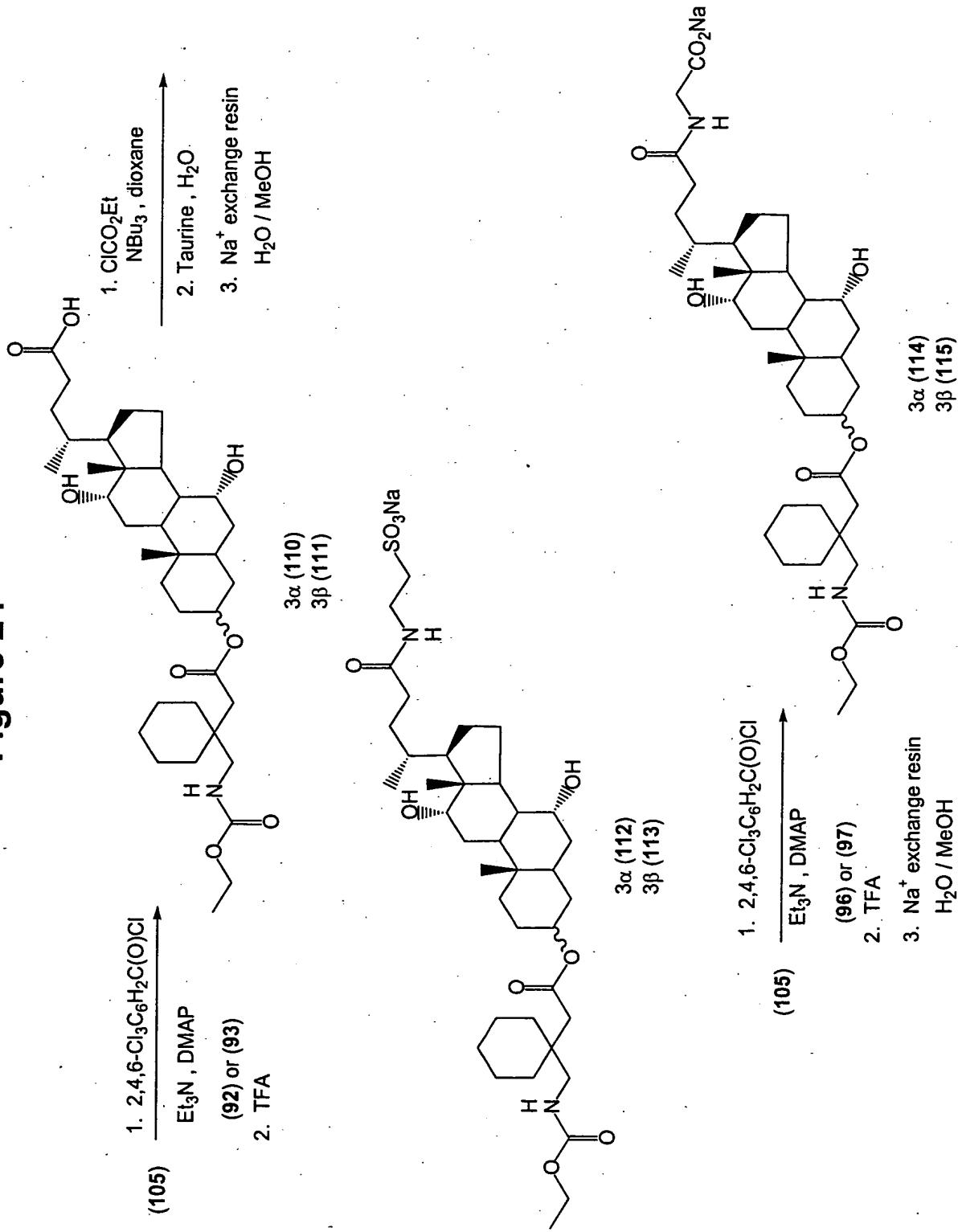


Figure 25

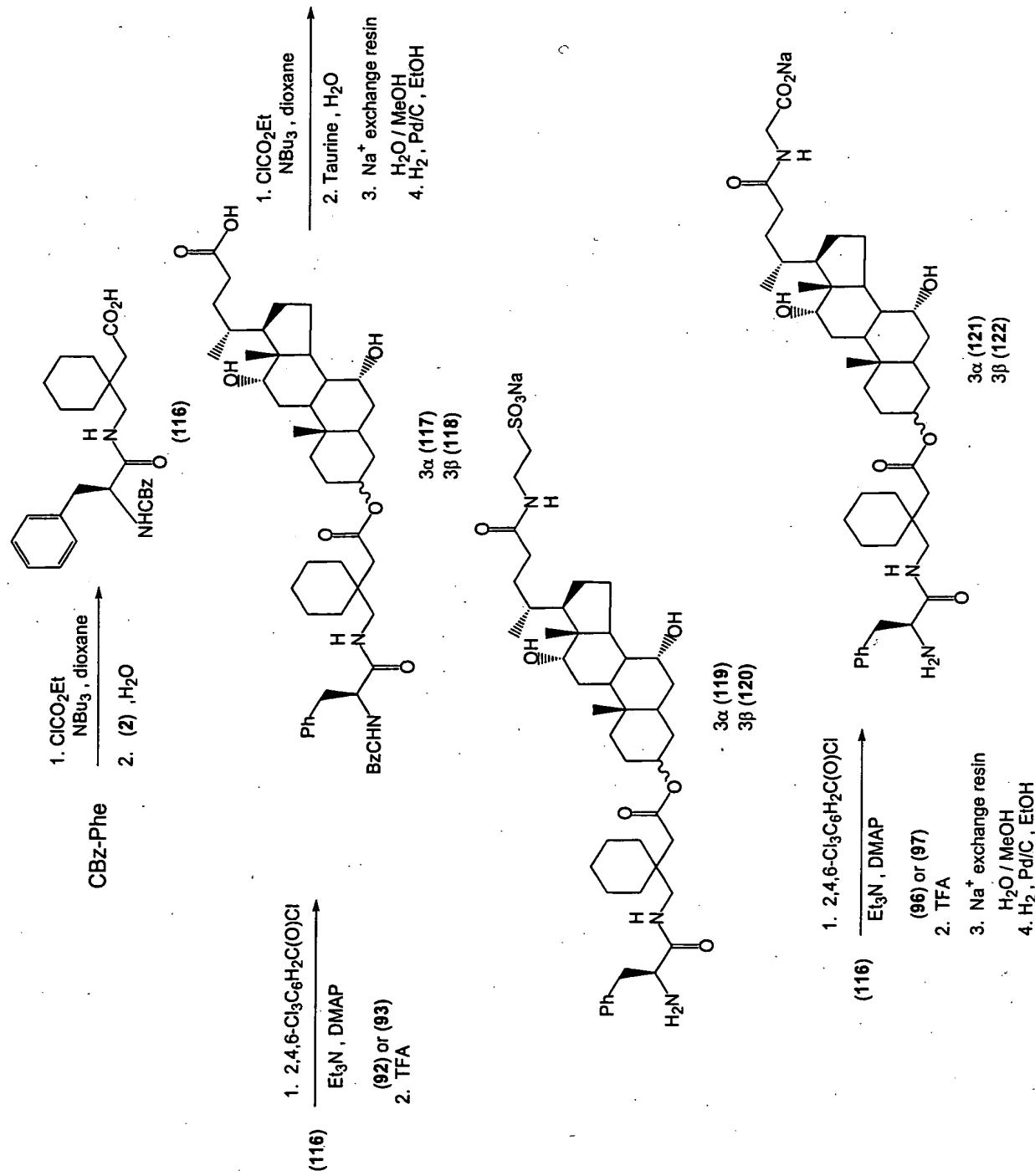


Figure 26

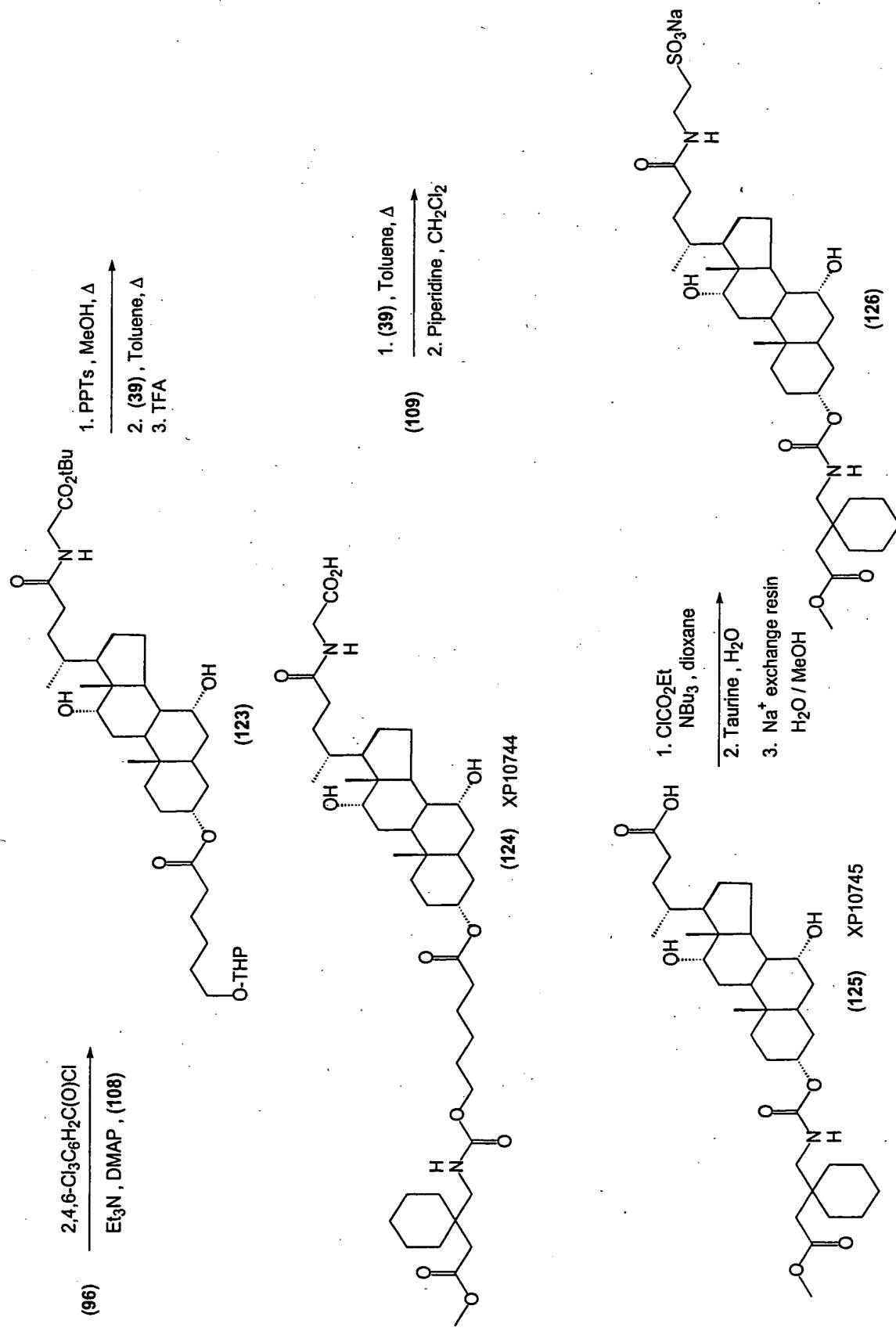


Figure 27

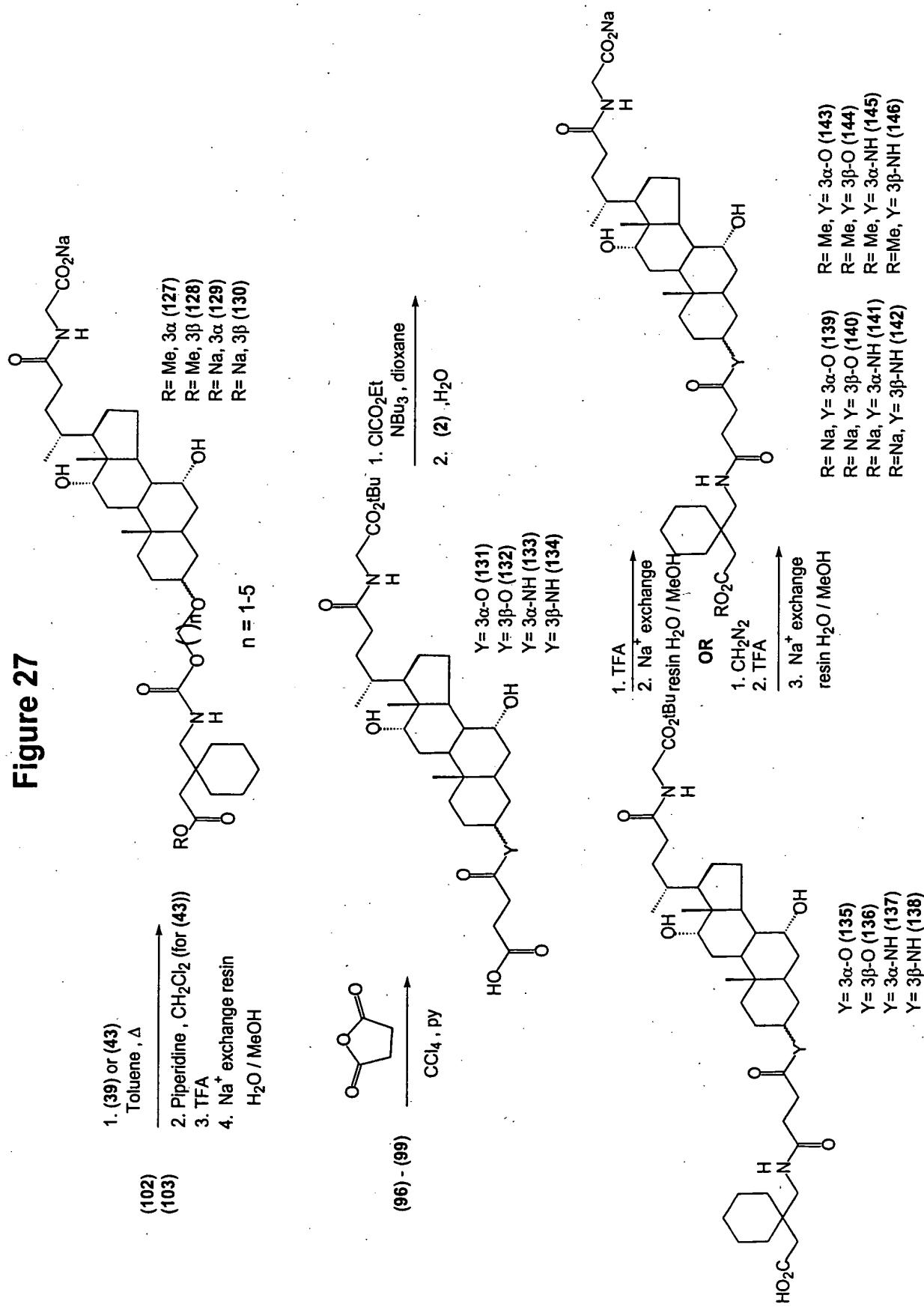
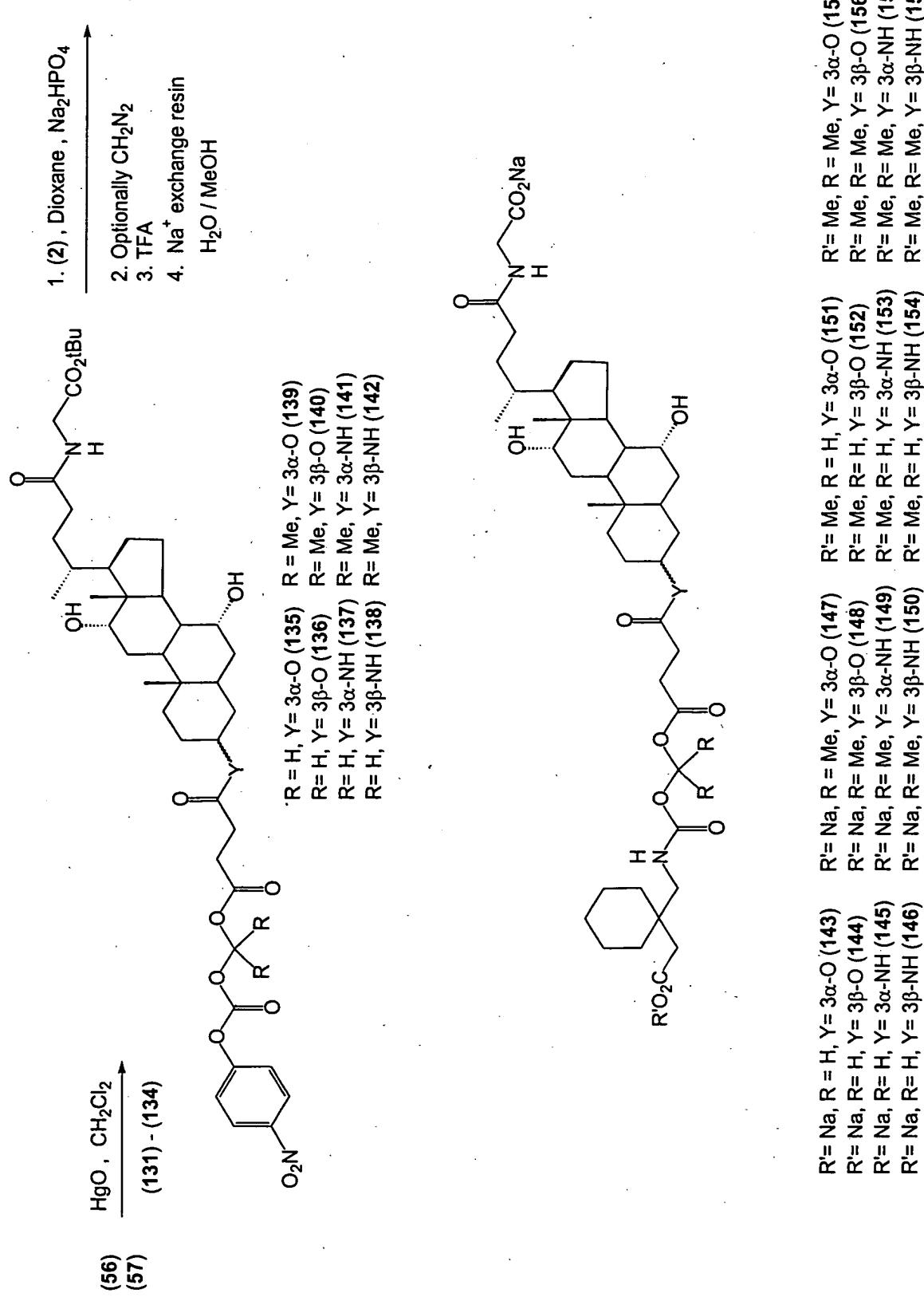


Figure 28



**Figure 29**

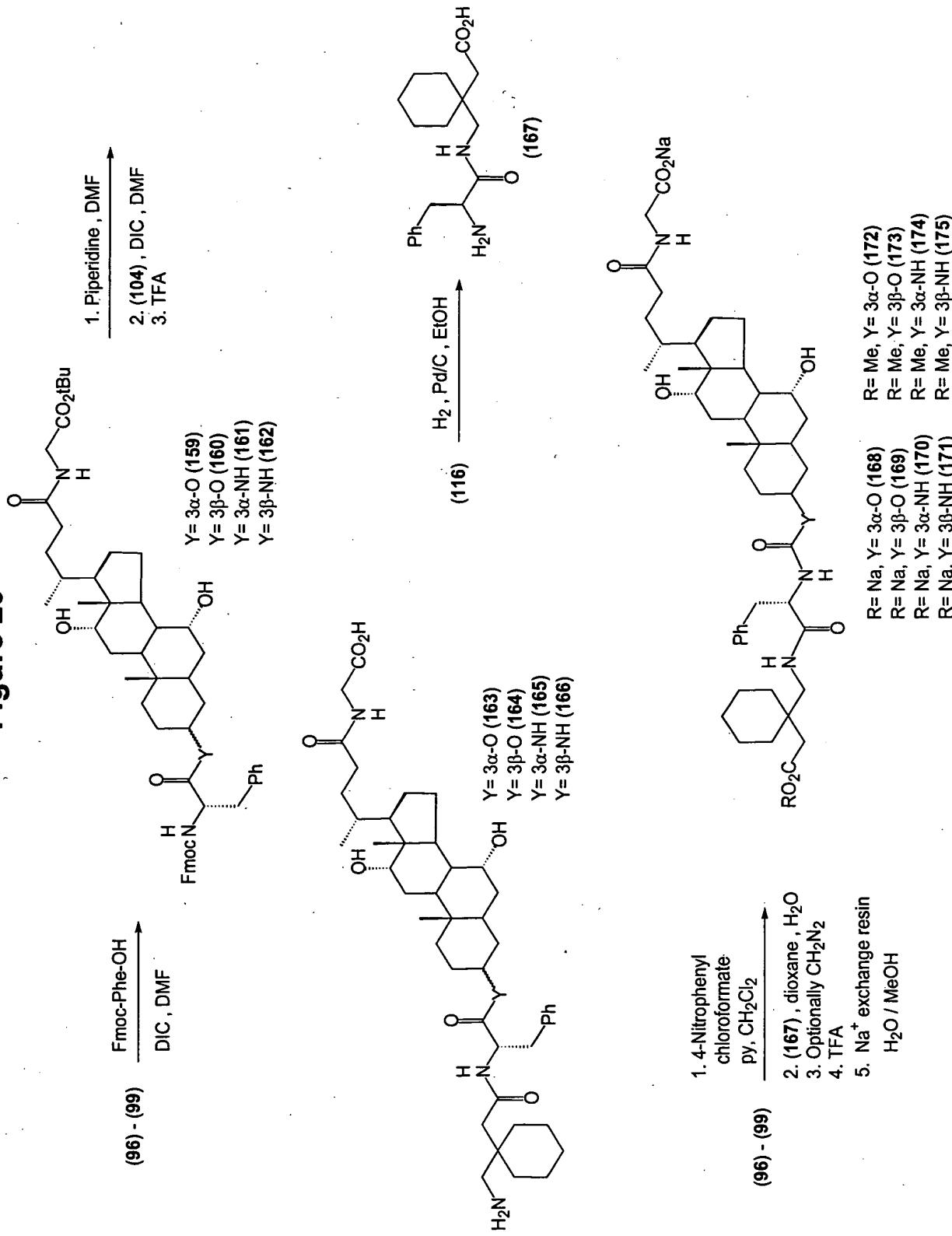


Figure 30

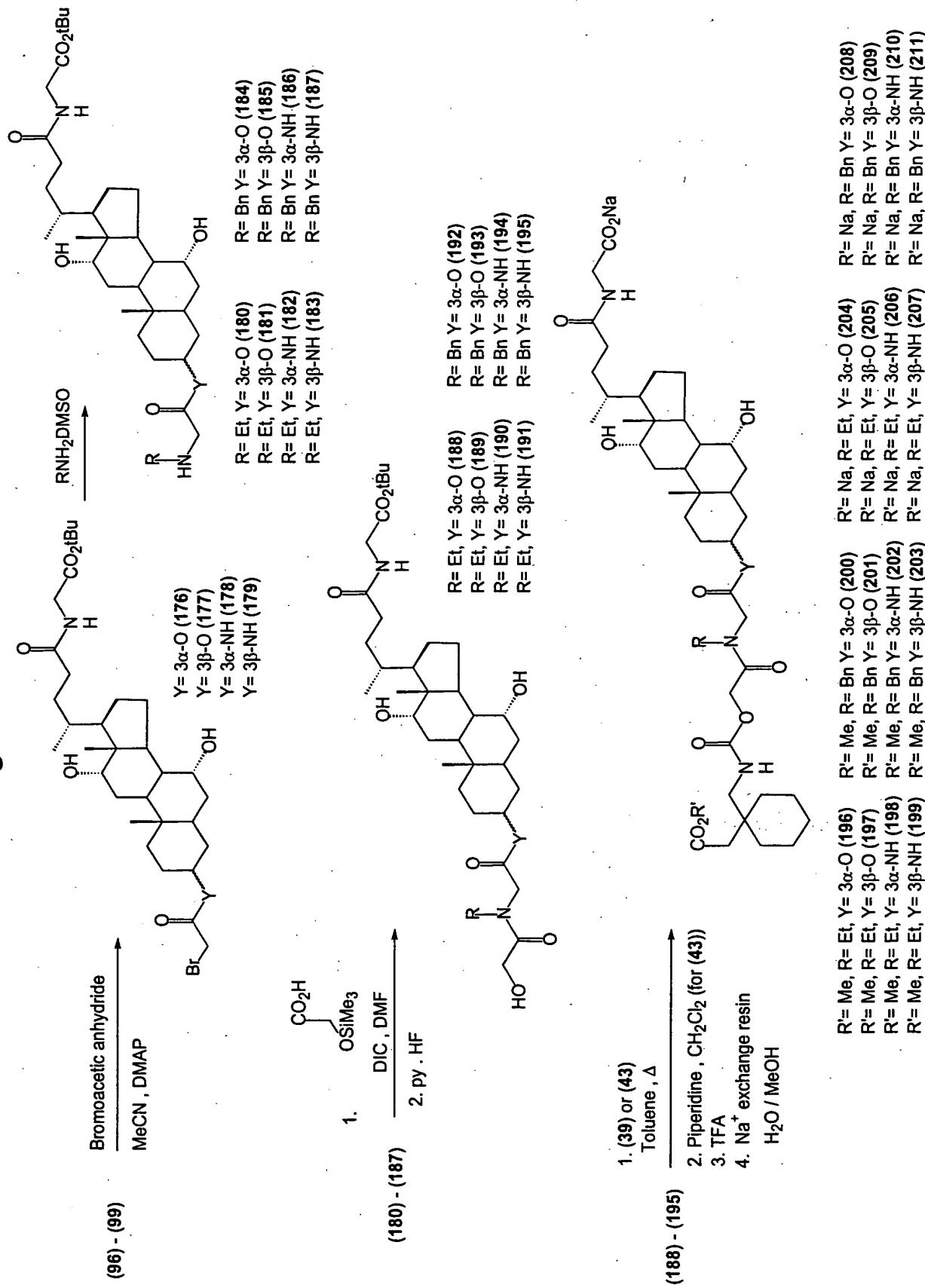


Figure 31

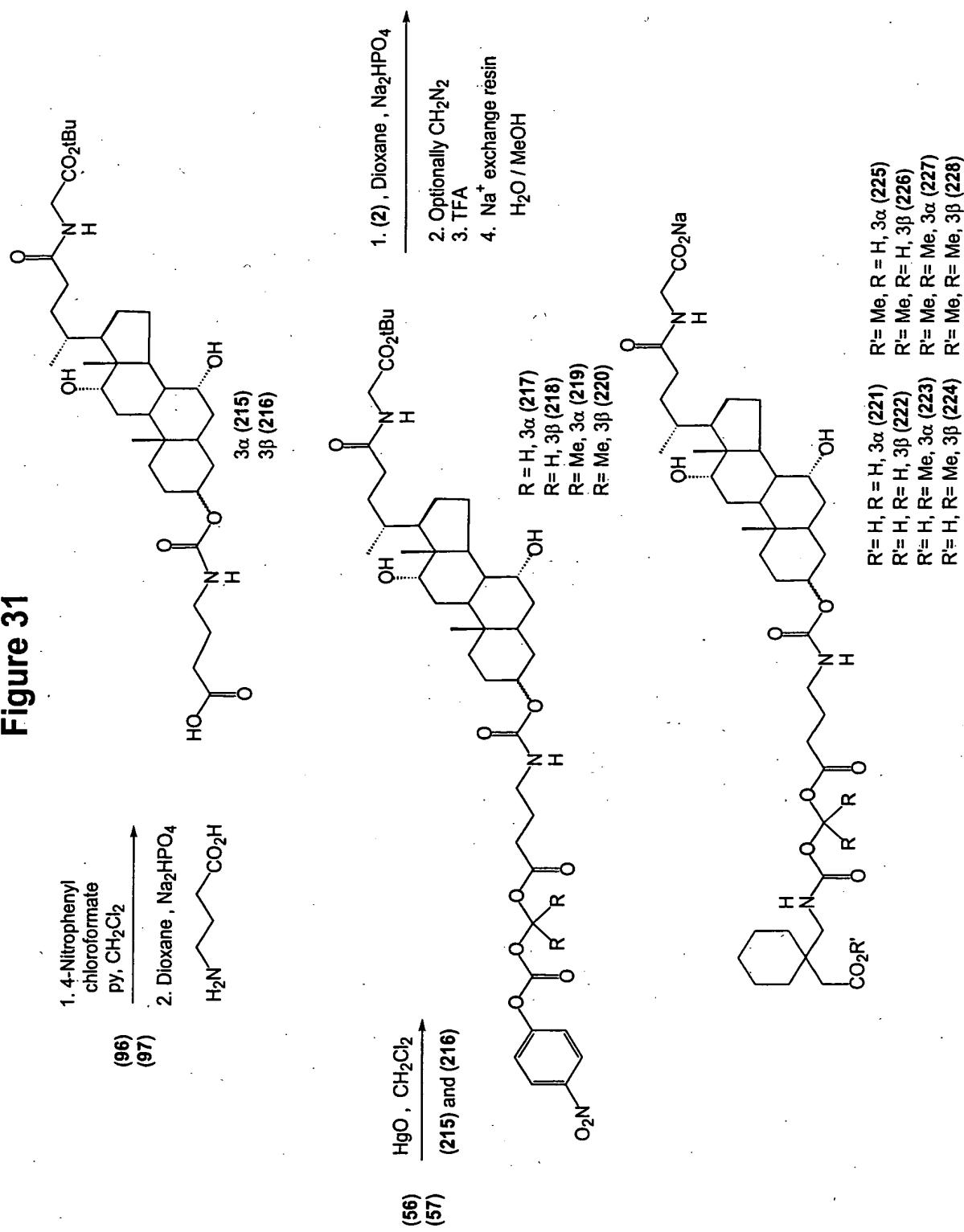


Figure 32  
Figure 32

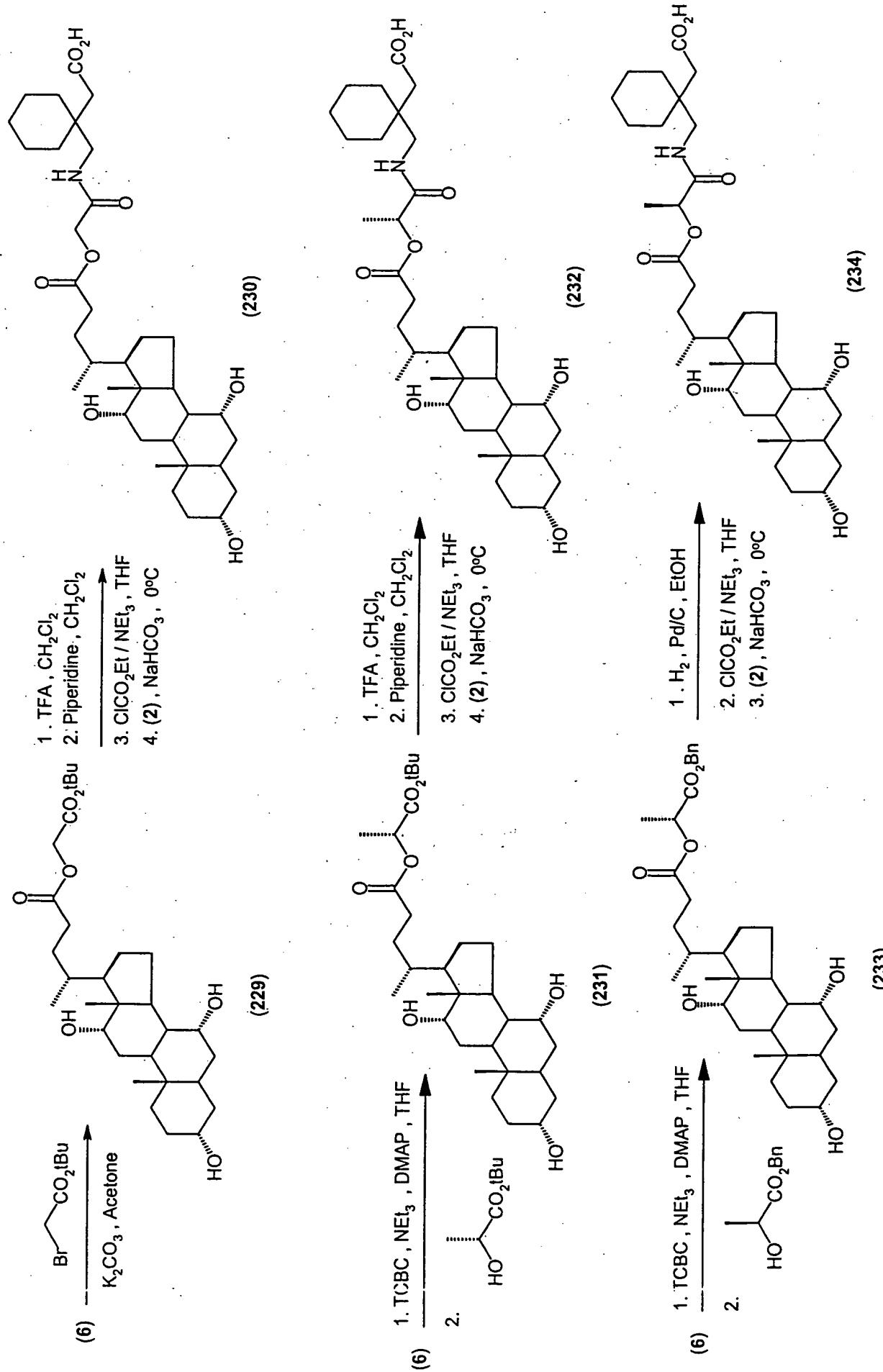


Figure 33

